

SEPTEMBER 1958 50c

FINEST IN THE FIREARMS FIELD



# Guns

HUNTING • SHOOTING • ADVENTURE

THE MAN TO BEAT  
IN MOSCOW



RELOADING for  
SKEET AND TRAP

WEATHERBY on  
HIGH VELOCITY

YOUR TARGET  
IS SMALLER THAN  
YOU THINK





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

**Ye Old Hunter Says: SAAMI: SAMPLES ARE ALL MAGNIFICENT INVESTMENTS!**

# ★ AMERICA'S GREATEST SUMMER SALE

## 1/2 PRICE SALE

FROM JULY 4 TO LABOR DAY 1958

## 2 BIG GIVEAWAY PLANS:

### PLAN No. 1

Two of any single item for the price of one plus one dollar (\$1.00), or as specially noted for "A," "B," "C" or "D"!

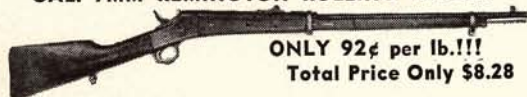
### PLAN No. 2

Entire collection of any single category ("A," "B," "C" or "D") for fantastically reduced price!!

### ZE SALE OF ZE YEAR

Ye Old Hunter, being all heart, has gone absolutely all out to give Old and Young, Big and Little, even Middle-sized Hunters everywhere the most unbelievably fantastic, astonishing bargains yet to be had. While in this absolutely amazingly generous mood, he extravagantly offers you the bargains you've never even dared dream about... So—STOP YE—READ YE—SEE YE—BUY YE—Quick, Quick, Quick, because these tremendous bargains which are absolutely yours from July 4th until Labor Day will go back to regular prices on September 1st when YE OLD HUNTER wakes up and realizes what he has done!!!

### CAL. 7MM REMINGTON ROLLING BLOCKS



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

Yes, here it is, the original "gun crank condition" 7 mm Remington. You can almost see the finger prints which the former fanatical owners pressed into the wood as they realized the jig was up. Nobody has Remingtons like these!!! All guns practically complete. Order now!

### FAMED .43 ORIGINAL REM. ROLLING BLOCKS



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

You can't buy prime hamburger at this price. Condition of all rifles is "Gun crank special," meaning that the outline is clearly visible through the rust and you can see light through the bore. A little of that old elbow grease will clean this fantastic bargain to NRA Fair condition. Cracked with conquest in the hands of fanatical Latin hoards. It is truly a precedent shattering bargain at only \$5.58.

### RARE M93 SPANISH LONG RANGE MAUSERS!



CAL. 7MM MAUSER—ONLY \$9.95

YE OLD HUNTER counted it the luckiest day of his life when this treasure trove of rare intel 93 Spanish Mauser deadly long range rifles fell into his hands with the surrender of a jingoistic group of unrepentant rebels. These lovely rifles are fortunately without bolts, thus avoiding all headspace problems! Action alone worth \$25.00!!!

### GARRIBALDI'S GREATEST!



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

Yes, this impossibly low price is true! This amazingly machined and fantastically inaccurate six-shot repeating GARRIBALDI'S GREATEST can be bought for ONLY \$9.95. COMPLETE with one hundred rounds of ammo in original clips. This is the rifle that COULD HAVE WON THE KOREAN WAR if the Chinese had been unarmed. Enjoy the greatest and cheapest big bore shooting of your life with this blood stained famed Model 70v Sniper Rifle—Garibaldi's Greatest. Now!

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

Superb appearing original 6.5mm Italian ball loads for all those imported rifles. Packed in original 6-rd. clips ready for use in all those Italian 6.5mm rifles and carbines. Cheapest price ever offered for these magnificent appearing cartridges! Components alone worth double—not to mention all the pullin' fun you'll have!

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

Gorgeous original Winchester 7mm commercial export ammo in 20-rd. boxes each round guaranteed with cracked neck to enable tool-less bullet pullin and effortless salvage. Order this "Pullin Ammo" sensation today—salvage and verdigris lunatics attention! Don't pass up this rare opportunity to save!

### 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 contemporary Mauser rounds available at last! Formerly sold at up to \$1 per round, so stock up now while supply lasts at this amazing price. Contemporary production! 184 Grain Boat-tailed Bullets!!!

### 8MM MAUSER APT.....\$5.50

Beautiful original German issue—in original 15-rd. boxes from Germany's greatest factories—RWS, DWM, others. True 8.23mm diameter bullets alone worth more than our give-away price for these entire APT rds. Pride of the Nazi Wehrmacht!

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

Sensational low price on these superbly intact delightfully mellowed Winchester 150 GR FP Bullets. Perfectly flawless preserved brass cases. 30-rd. Commercial original boxes. Manufactured in roaring 20's and joyous 30's to delight the expensive 50's with their unbelievable economy and discolored hues! Now!

### T.S. (Top Selling) MAGAZINE BUYS

Schmeisser MP 38/40 box magazine.....	\$8.95
Two MG 34/42 drums with carrying basket.....	8.50
United Defense OSS Special Box Magazine (9MM Luger).....	4.00
Thompson 20 rd. box magazine.....	2.00
Thompson 30 rd. box magazine.....	3.00
Thompson 50 rd. drum magazine.....	5.00
Johnson caliber .30-06 LMG magazine.....	1.50
Model U.S. M3 ("Grease Gun") Submachine Gun, 30rd. magazine.....	2.50
BAR Magazine.....	3.00
Boys Antitank Rifle Magazine.....	2.50
U. S. Government all-proof Gun Envelopes:	
a) rifle size, 2 for \$1.00	1.00
b) pistol size, 2 for \$1.00 postpaid	1.00
Exotic .50 caliber machine gun canvas cover.....	1.50

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

### RIFLE GIVEAWAYS CATEGORY "A" & "B"

Yes, 'tis true, Ye Old Hunter, that year-around Santa Claus, offers the beloved gun bugs zee most unbelievable buy of the year, TWO of any one model gun shown here FOR THE PRICE OF ONE plus \$1.00, or all our rifles in category "A" for only \$22.50, or all our rifles in category "B" for only \$32.50. Combine your extra greenbacks with those of a buddy and get these SENSATIONAL SALE SAMPLES at practically half price. Who said the first rifle will be as nice as the second?? But, HOW can you lose???

## 1/2 PRICE SALE

### AMMO GIVEAWAYS CATEGORY "C"

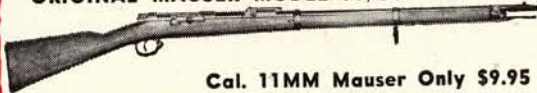
ALL PRICES SHOWN ARE PER MINIMUM ORDER OF ONE HUNDRED ROUNDS

This couldn't be possible—but it is!!! Again, the offer of a lifetime is made by "Zee Old Hunter," winner of this year's "Captain Nemo Loving Cup," presented annually by Octopus Arms Associates to the most liquid of their colleagues. TWO HUNDRED ROUNDS OF any single caliber ammunition shown here for the price of 100 rounds plus \$1.00. At this price you can invest with a friend and go into the ammo business for yourselves. A plinker's or re-loader's dream. As a starter for a fabulous collection, purchase the 100 rounds of each type ammo shown for only \$40.66!!!!

### OTHER GIVEAWAYS CATEGORY "D"

You can purchase two of any single item shown in this section for the low, low price of one, plus only 25¢, or to start the best of outrageous collections, the Old Hunter, that man who is all heart, would give you one of each item listed in this fabulous section—all Fifteen items for only \$24.97.

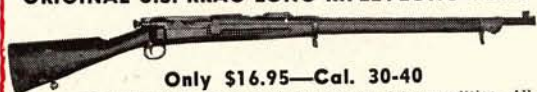
### ORIGINAL MAUSER MODEL 71/84 "BIG 11"



Cal. 11MM Mauser Only \$9.95

The FIND of the century—the BUY of the century. Complete in every detail and fully functional down to the clouds of dust which rise into the air with every stroke of the bolt. When it speaks, there is thunder in the hills. There is no telling what condition you may attain from the hours spent joyfully cleaning up these horrible specimens, with luck, NRA "Fair Condition" is possible! Only \$9.95, complete with tradition.

### ORIGINAL U.S. KRAG LONG RIFLE (LONG TOM)



Only \$16.95—Cal. 30-40

The world famous Krag (Long Tom) in complete firing condition. All rifles absolutely ready for thorough cleaning and handguard replenishing. A U. S. Martial collector's must. A smashing item for \$16.95.

### RARE ORIGINAL REMINGTON CARBINES



7MM REMINGTON CARBINE ONLY \$11.95

The original and extremely rare 7 mm Remington carbine, the most sought after Remington collectible by collectors today, yet Ye Old Hunter brings zee American Collecting Fraternity this priceless item for Only \$11.95. Buy today! Sell tomorrow for a good profit! Or keep it!

### RED RUSSIAN REPEATING RIFLES "MN"



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

Offered as ransom by a group of former fanatical deviationists, these magnificently fair condition and outrageously accurate specimens are offered by Ye Old Hunter to his capitalist friends for only \$9.95 Cash!

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

Leave it to Ye Old Hunter to return triumphant with this greatest large rifle cartridge bargain in America today. Beautifully original Commercial U. S. Krag 220 Gr. FP loads at far less than even reloading components costs. Supply not inexhaustible, so better order now to be sure! Manufactured by Winchester, Etc.

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

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

### 11MM MAUSER ("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 load for those original Model 71/84 Mauser rifles you've been stealing of late. Ammo almost bears Bismarck's fingerprints, but we have never had a misfire to date!

### .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 makes superb target or hunting round for those shootable .43 Remington rolling blocks. Appears magnificent—shootability unguaranteed. Worth twice this price for components alone—any day!

### .45 ACP "PULLIN" AMMO.....\$2.50

Who else but Ye Old Hunter could offer you this exotic ammo for only \$2.50 per 100. Yes, here it is, a real finch testing special. Don't overwork your hangfire. Who said it would shoot??? Truly your ever lovin' lookin' ammo!

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

Ye Old Hunter now re-offers the famous sell-out of last winter—finest super caliber round ever made in United States, 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 reloader (save, save, save) a most primers indent with perfect symmetry and complete silence! And, at this price you're ahead anyway!

### AMERICA'S BEST 30-06 BARREL BUY!

U. S. Govt. Cal. 30-06 Barrels.....Only \$3.95  
You may have seen these advertised at tremendous prices elsewhere, but now buy them at prices that pay you to rebare!—NOW! 24" BRAND NEW, 4-GROOVE, 1" 1/16" thread. Add 75¢ packing and mailing charges per barrel. Why pay others fortunes for these amazing barrel buys? Pay Ye Old Hunter! Buy now!!

### REMINGTON ROLLING BLOCK BARREL-ACTION (Specify 7MM or 11MM Caliber) ONLY \$1.95

IMPORTANT! SALES TERMS AND INFORMATION—READ CAREFULLY: All guns and ammo shipped RR EXPRESS (Shipping Charges COLLECT) from Alexandria Virginia. Send check or M.O. DO NOT SEND CASH. Sorry, NO MONEY BACK. "Money's Worth or Money Back" guarantee when goods are returned prepaid within two days after receipt. When in the 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. Save!!! Sales limited to Continental United States.

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# The Colt Huntsman points the way to gun fun!

What can match the fun of plinking at cans and bottles (against a safe back-stop!), or of target shooting, with your own rapid-fire automatic? Or match the challenge of hunting varmints, trying to get close enough for a handgun shot?

And what can match the shooting economy of that great American institution—the .22 caliber cartridge?

You get it all with the wonderful Colt Huntsman: plenty of fun, plenty of shooting features, plenty of accuracy, plenty of economy. Yes, with its forged steel parts, crisp trigger pulls, natural pointing, easy-loading magazine, and Colt Blue finish, the Huntsman's far and away the best gun for the money on the market. Choice of 4½" or 6" barrels. See it today at your Registered Colt Dealer's.

*Colt's Patent Fire Arms Manufacturing Co., Inc., Hartford 15, Conn.*



\$46<sup>75</sup>

**COLT** 

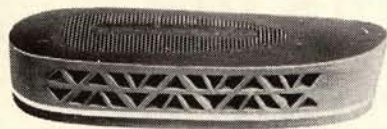
FAMOUS IN THE PAST . . . FIRST IN THE FUTURE





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**WHITE LINE**

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For Rifles  
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**"White Line" Recoil Pads**

Unique design offers gradual resistance to recoil, instead of "mushy" cushioning or abrupt "bottoming." There is a model for every purpose, whether rifle or shotgun. For quality, long life and unexcelled shooting comfort, insist on "White Line" Recoil Pads. Deluxe (shown) \$3.75



**Deluxe Slip-On Recoil Absorber**

Easily slips on to any shotgun or rifle. "Progressive Action" absorbs shock. Will give years of service. Only \$2.00



**MERSHON  
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Will safely and conveniently carry your cartridges without damage or loss. A model for most cartridges. Shells won't stick when removed. Fits on any belt up to 2" wide. Only \$2.50



**MERSHON  
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Fits all modern Colts and S & W Revolvers and pistols. Easily installed without changing or marring gun. Improves shooting accuracy. Prevents gun from slipping if hands are moist or wet. Can be cut or shaped to fit your hand. Only \$5.75

**Mershon  
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Designed for target shooters. In this grip you will not experience "Rocking" with recoil or ugly gaps. Of finest imported walnut, expertly checkered with a hand-rubbed oil finish.



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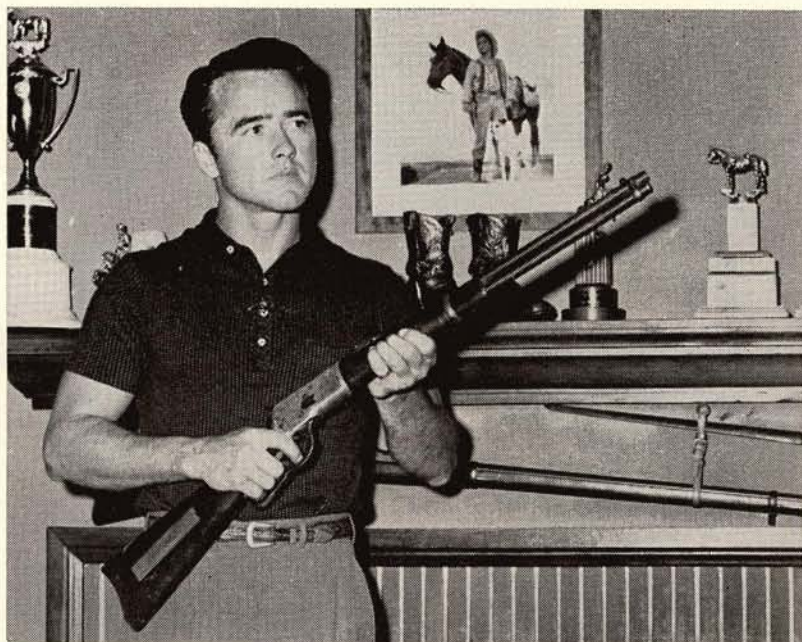
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By **JULIAN OLEVSKY**  
*Noted Concert Violinist*

Since I was 10 when my parents bribed me to give my concert debut in Buenos Aires, I have been interested in guns. The bribe was a water pistol! Recently, Continental Arms Corp. made an FN Magnum Mauser to my specifications in .458 caliber. The barrel, rear sight rib, and front sight base, are machined in one piece, with a self-aligning recoil lug. The 10-year old French walnut blank is perfectly inletted and a Shacul muzzle brake is fitted to reduce kick. It was a pleasure to have this gun made according to my ideas. It was a pleasure, too, to record Bach's 12 Bradenberg Concertos on my recent trip to Vienna, but when I finished those dynamic musical works, I had taken about as much punishment as if I had poured 200 rounds through my new .458.

**MY  
FAVORITE  
GUN**



By **DICK JONES**  
*TV and Radio Star*

Guns are a relaxing hobby after my breadwinning work at the studio. My favorite handguns are a pair of .44-40 "Colt's Frontier Six-Shooters" given to me by Joe Bodrie at the Hartford Sports Show in 1957. I prize them because they were given to me by Joe, who is my friend and has helped me perfect some gun skills I use in performing as a "cowboy." I guess if it weren't for Colt's, there wouldn't be any "cowboys." My favorite rifle is a Model 92, somewhat battered but slick-acting, that I have used in my roles as "Buffalo Bill, Jr. and "Dick West." On radio, as "Henry Aldrich," I don't have much to do with guns but manage to keep my eye sharp shooting with the Los Angeles Deputy Sheriff's team where I fire a .38 Officers Model revolver.



# TRIGGER TALK

FROM THE TOP of the deck to the bottom, we've stacked this issue to deal a pat full house to every gun enthusiast.

First is Roy Weatherby's story on high velocity. Weatherby is one of the leading and most quoted of the advocates of high velocity for maximum bullet energy, as opposed to the school (led by our own Elmer Keith) which preaches that bullets need weight as well as speed to stop heavy game quickly and humanely. Weatherby is world-famous as a maker of fine rifles; he is also a hunter of wide experience on all kinds of game, from dik-dik to pachyderms, from rabbits to Kodiaks. No matter where your allegiance lies in this perennial controversy, *Weatherby On High Velocity* is worth reading.

*The Man To Beat In Moscow* is a story we have wanted to publish for a long time. This article is an exclusive GUNS scoop from behind the "iron curtain." This month, just as the International Shooting Union's meet in Moscow hits the news, here is a behind-the-scenes story of the man-behind the gun, Mikhail Margolin, the USSR's foremost sport pistol designer.

Scattergunners will find profit and pleasure in *Shotshell Reloading For Trap And Skeet*. By a leading western shotgunner, Burton Whitlock, this one shows you all the cards in the ways to make the best reloads for your shooting improvement. Take a reading on this one—the ideas and facts will give you more shooting for more fun.

Al Goerg, noted West Coast big game hunter and outdoorsman, who sells sporting goods so he can preach what he practices, has done a very logical thing in *Your Target Is Smaller Than You Think*. The sportsman often sees a deer as a big hunk of dun-colored mulie gallivanting across his scope lens. But Goerg sees that animal as a vital area often smaller than the bull of a hundred yard sighting-in target. His pictorial eyepiece will make you a better hunter.

*The Miracle of Waidmannsheil* is strictly an American story, about what Americans are doing—hunting and target shooting. But where they are doing this, and with whom they are hunting, makes all the difference. For as a by-product of outdoors with a gun for 100,000 U. S. servicemen in Europe, the U. S. Army has been able to train the equivalent of 10 infantry divisions in backyard knowledge of the little-known corners of Germany.

*The Lady Picks A Hunting Rifle* is one for—the men. Let's face facts: sooner or later most of us big, brawny outdoorsmen are going to be dealt straight out of the game by some winsome lass; if it hasn't already happened. So you can do one of two things. You can sell off all your fine firearms and hold up her knitting yarn, or you can show her how guns are fun and get her to share what you're doing.

Shuffle through this deck, get a look at the "face cards" we're dealing. The ante for twelve big issues is five bucks. Why not mail it in to our circulation department, now?



## THE COVER

Familiar and dear in the memory of every participant in trap-shooting's classic "Grand" is the long firing line at Vandalia where hot guns and hot gunners burn shotshells by the ton in pursuit of fat purses and a niche (more coveted even than the cash) in trap shooting's Hall of Fame.

# Guns

FINEST IN THE FIREARMS FIELD

SEPTEMBER, 1958

VOL. IV, 9-45

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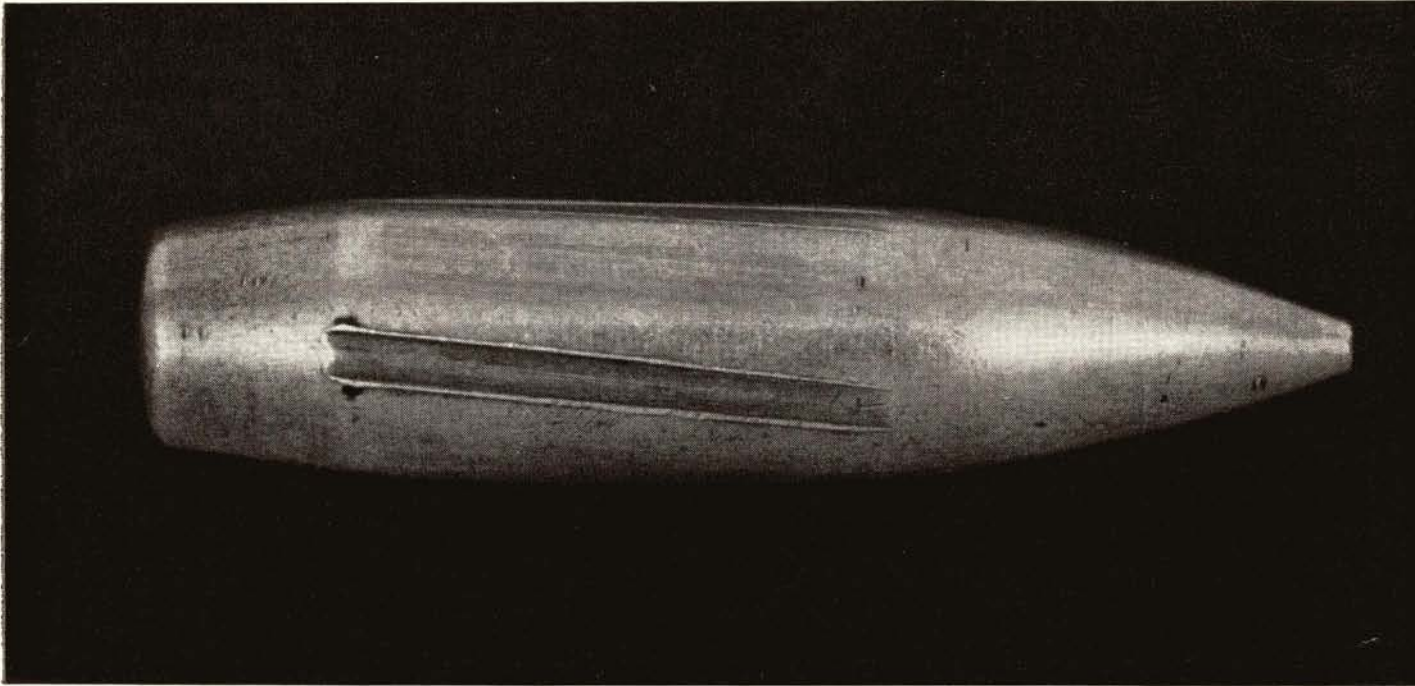


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# Which Bullet Hit



If you're a bug on accuracy, take a good look at those two bullets. You may be glad you did, next hunting season.

Notice the one on the left has four deep grooves in the copper jacket. See how metal is ridged along the grooves, throwing the bullet out of balance.

Now notice the other bullet. *It was fired from a Marlin rifle, with Micro-Groove Rifling.\** You can see

that those 16 shallow grooves *molded* the jacket instead of gouging it.

In addition, Micro-Groove Rifling cuts down on gas leakage, gives you *higher muzzle velocities* and *flatter trajectories*. The result—proved by more than 25,000 test rounds—is an average *20-25% greater accuracy with Micro-Groove Rifling!* And that's not all:

Marlin's exclusive Micro-Groove Rifling process results in an extra-

hard "lining" inside each .22-caliber barrel, that resists wear and corrosion better than ordinary steel. And *all* Marlin rifle barrels are easier to clean.

Ask your gun dealer to help you choose the Marlin model and caliber that's right for you. The Marlin line includes lever action, bolt action and semi-automatic .22's, high-velocity varmint rifles and lever-action and bolt action high-powers.

## SCOPE SCOOP

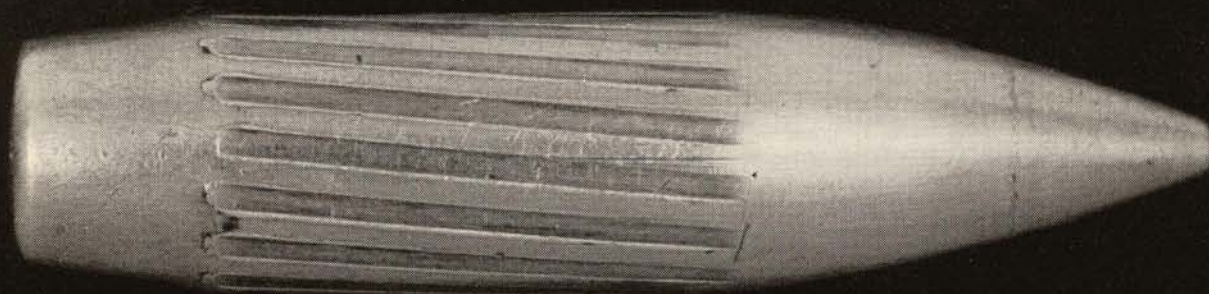
Save 1/3 off regular price of new Marlin Micro-Vue 4X Scope! See your Marlin dealer now for details of this special introductory offer! ➤



\*Patent applied for. \*\*Slightly higher west of the Rockies. Subject to change without notice.



# the Bulls Eye?

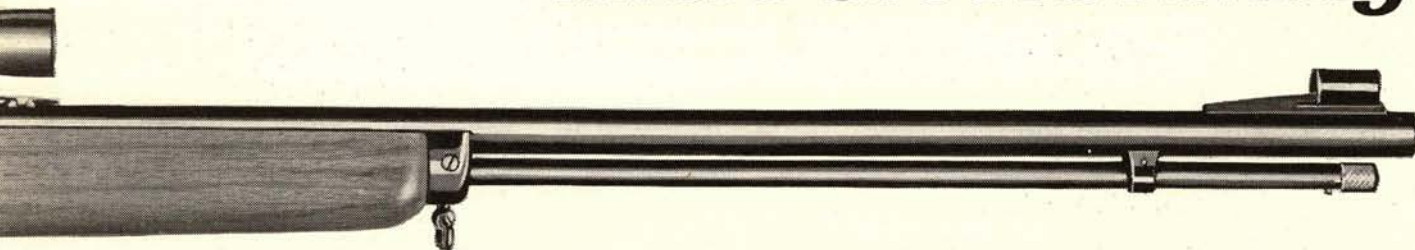


Enlarged but untouched photograph of .30 cal. bullets.

"GREAT GUNS SINCE 1870"

## Marlin

### *Micro-Groove Rifling*



The Marlin Golden 39-A, shown here, is America's finest sporting .22! With special stock finish, top-grade sling swivels, adapter base for tip-off mounts, smart grip cap to protect pistol grip, blued breech bolt and gold-plated trigger—\$74.95\*\*. Marlin Micro-Vue 4X Scope with positive click adjustments protected by weatherproof caps, coated fog-proof lens in shockproof mounting, sunshade, cross-hair reticule and other quality features—\$14.95. Look for the identifying gold bands. Special combination price—\$84.95\*\*. Other Marlin .22 rifles from \$16.95\*\*.

K-98

Marlin Firearms Company, P.O. Box 995, New York 17, N. Y.

Without obligation, please send me the Marlin Catalog showing complete line of Marlin rifles and shotguns with color illustrations—also illustrated 16-page Target and Game Record Book for my personal shooting records—also sample tube of Marlin RUSTOPPER, the "miracle powder" used by armed forces and industry to prevent rust and corrosion without oil or grease. I enclose 25¢ to cover handling.

Name.....Age.....

Address.....

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Keith  
says . . .****Hornady Steel Jacket .30 Caliber**

The Hornady Manufacturing Co. of Grand Island, Nebraska, who make the best steel jacket solid bullet in .375 Magnum, are now out with a very fine round nose 220 grain heavy steel jacket solid in .30 caliber. The copper coated steel jacket is .050" in thickness and goes through five feet of cottonwood from a .300 Weatherby, so should drill the think-box of any pachyderm with ease. Hornady says he will also have a .458 caliber bullet in soft nose and steel jacket solid by August for those users of the various .450 Magnums, .450 caliber double rifles, and the .458 Winchester. Solids are useful for finishing wounded game anywhere with no mutilation, and are a necessity for finishing wounded African great game with brain shots. I can heartily recommend these Hornady bullets.

**Auto Pistol Parts & Magazines**

Shelley Braverman of Athens, N. Y., usually carries a lot of spare parts and magazines for foreign-made auto pistols.

**New Ramp Front Sights**

Many shooters wish to shorten the barrel on their revolvers for defense use and wonder how to again fit a front sight. One of the best answers to this dilemma is to use a Williams Gunsight Co. rifle ramp front sight and silver-solder it to the barrel. They can be had in a wide variety of heights, and will take a dove tail rifle sight of various heights as well. It makes a sturdy, good looking job when the proper height of ramp and front sight and proper barrel contour is secured. Works well even on very short belly guns as well as longer arms.

**Effects of Primers on Ballistics**

Sample	Priming Mixture	Average Velocity	Average Pressure
1	A	2352 fps	53,700 psi
2	B	2316 fps	46,550 psi
3	C	2311 fps	42,220 psi
4	D	2298 fps	42,870 psi
5	E	2229 fps	32,120 psi

The above table is a result of extensive tests conducted by Remington to determine the effects of different priming mixtures. Remington's comments follow:

"For the same cases, powder, powder charge, and bullets, simply changing the priming mixture caused a difference of over 120 feet per second in velocity and 21,000 pounds per square inch pressure!"

"It is only after the most exhaustive, comprehensive, elaborate tests that a priming mixture is admitted to use in production. Even then, powder types and powder charges must be selected specifically for use with

the particular primer type being used. The ammunition manufacturer would no more think of using primers of unknown type than he would of using unknown powders. The primer has long since ceased to resemble a match. It is the heart of the cartridge, but a heart whose complexity has increased enormously with time and which must be treated with the respect it deserves."

**Lawrence Buscadero Rig**

Since the days of the Wild West, the "Buscadero"-type belt-and-holster rig has been a favorite with handgun toters. Today, it is enjoying renewed popularity across the country. The Lawrence Buscadero outfit features one drop loop on a belt with 30 cartridge loops. It is cut on a curve for wearing comfort and proper fit. The special quick-draw holster is available for either right or left hand shooters. It has leather leg guard, thong tie, and buckled loop. The saddle leather is a premium lightweight grade of extra durability and long wear. Lawrence Buscadero retails at \$36.95 in plain saddle leather. It is available in all sizes for men and women and fits all revolvers with 3 1/2" barrels, or longer. For complete information and prices write the George Lawrence Company, 306 S. W. First Avenue, Portland, Oregon.

**High Standard Double Nine .22**

We have been testing the new High Standard Double Nine, a radical departure from most existing double actions. It is a replica in shape of the famous old Colt Single Action, having about the same balance and the same grip, yet this is a double action arm. The cylinder holds nine .22 L.R. cartridges, and I believe all .22 caliber revolvers should carry nine chambers. This puts it on equal footing with most .22 caliber auto pistols for fire-power, and the revolver is much easier to load than are the auto pistol magazines.

The new arm has simultaneous ejection of the nine spent cartridges. The crane and cylinder lock are the same as on the High Standard Sentinel, but with this improvement: The gun has what looks like the usual sliding rod ejector of the single action. This housing holds a thumb piece to be pushed forward, which pulls the ejector rod from its seat in the front of the frame, thereby

(Continued on page 60)



# Shoot More Varmints

## with a B&L Rifle Sight



### 4 Great Scopes for the Varmint Shooter

Varmint shooting is more fun *and* more productive when your rifle is equipped with a B&L sight. Unequalled in optical quality and mechanical ruggedness, all B&L sights provide the wide field, brilliant image and razor-sharp contrast you're looking for—they're *guaranteed* fogproof and stay in constant zero. Before you buy any scope, *try* a B&L—you'll see the difference!

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**FREE MANUAL** • Send for your copy of "Facts About Telescopic Sights," a 96-page manual filled with valuable information about telescopic shooting. Gives full description of entire line of B&L rifle sights.

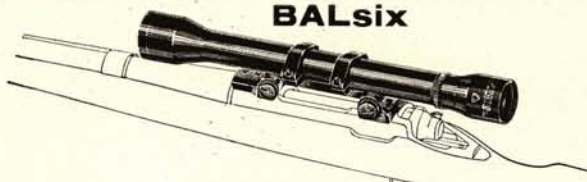
Bausch & Lomb Optical Co.,  
20633 Lomb Park,  
Rochester 2, N. Y.



## BAUSCH & LOMB

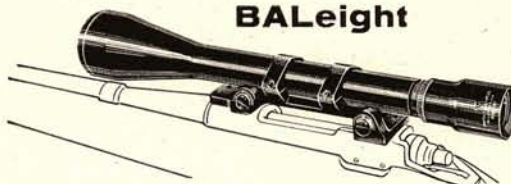
SINCE  1853

#### BALsix



Fixed power 6X . . . widest field of any 6X scope, 21' at 100 yards. Cross-hair reticle, 30mm objective. \$75. Lee Dot reticle extra.

#### BALeight



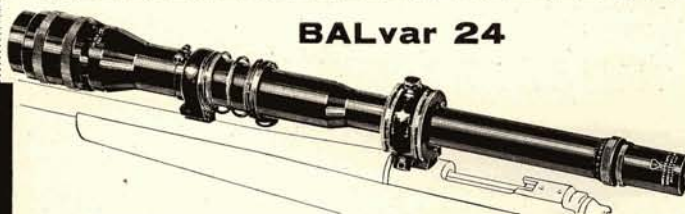
Fixed power, wide field 8X varmint sight. Rugged, fogproof construction. Cross-hair reticle, Balcote anti-reflection coating. \$85.

#### BALvar 8



Variable Power, 2½X-8X, hunting-varmint sight. Tapered cross-hair reticle ⅓ minute at center. \$99.50

#### BALvar 24



Variable power, 6X-24X, target-varmint sight. Tapered cross-hair reticle ⅛ minute at center. With mount \$160.



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# CROSSFIRE

## LETTERS TO THE EDITOR

ticles on handguns and Automatic weapons and the latest dope on Gunslicks like Bodrie and Ojala.

Mr. Pernice of Brooklyn, N.Y., ("Crossfire," April) has the right idea on firearms legislation. We gunbugs could stop a good share of the bad legislation if we decided to do something. It's time some police agencies found out it's the citizens who run the country, not the police and the politicians.

Bill Clark  
LaPorte, Indiana

### Under the Bed!

I really fail to see why everyone is so dead set against machine gun laws. What in the world would a law abiding person want with a machine gun? It's all very well to say that our rights are being encroached upon, and plead the second amendment, and say it's fun and enjoyable. But if we have a lot of legal machine guns floating about, then I'm going under the bed and staying there. I'm all for shooting and less restriction of sporting and target weapons, but let's keep things within sane limits.

Aside from that, you have a wonderful magazine. I would like to see more articles like the one H. J. Erfurth is doing on the army's new machine guns, and less fire and brimstone boys on why we should be able to hunt woodchucks with hand grenades.

Stan Washburn  
Chicago, Ill.

### "Wake Up, America"

With respect to William B. Edwards' article, May 1958—"Red Guns In The Desert:"

Wake up, America—  
Take note, free world—

We need nation wide automatic weapons training.

John F. Woodhull  
Eagle Pass, Texas

### Collector Colts

Would like to tell you how much I enjoyed the story "The Colt's Pocket Autos," by Donald Simmons, in the May issue of your good magazine. The very complete details he gave on the markings of all the different models was some info that I was sure glad to have.

I feel sure that a lot of small-time collectors like myself would join me in asking that more articles of this type covering different Colts be printed.

A. W. Gray  
Lytle, Texas

We will be publishing more material on guns of interest to collectors in future issues of GUNS.—Editor

### We Love You, Too

I have just finished reading your April issue and I am convinced that you have the best magazine for gun bugs on the market.

Richard Peters  
Los Angeles, Calif.

### Testimonial For Mr. Perry

I more than appreciate your sending me the copy of GUNS Magazine containing the article by Mr. Perry ("West Point's Library of Guns," June 1958). It is a very interesting one. (Since he transferred from West Point to the Harry S. Truman Library) he is doing a fine job in the Library, and I am sure that he will make as great a contribution here as he did at West Point.

Harry S. Truman  
Independence, Missouri

### Dat Old Debbil, Price

After reading Colonel George W. Busbey's excellent article (April, 1958) on "I Like the Side-By-Sides," and rereading Colonel Charles Askins' equally excellent article (February, 1956) on "Glamour Girl of the Shotgun World," I think the Colonels have equally strong arguments. Busbey is buggy and Askins is asking for it when they say their pet doubles are the best.

Gentlemen, neither of you mentioned the price factor. An ideal shotgun should have the right price, a price the "average" American shotgunner is willing to shell out.

The side-by-side has prices in its favor, because it is "easier" to make and in brush and timber it is easier to see its broad sighting plane.

The over-under has a single sighting plane which is handier for skeet and trap shooting. Another advantage is better positioning (for shooting, not mechanically) of the first barrel, and therefore the gun has slightly less apparent recoil and a slightly faster theoretical second shot. The over-under costs more, especially if you want automatic selective ejectors and a single trigger.

Here is how I stand: I dream about owning an over-under, but because of prices, I own and shoot an A.Y.A. side-by-side.

Peter Drus, Jr.  
Los Angeles, California

### May His Tribe Increase

Thanks for a great magazine. I am 17 and my dad never cared for guns, but through your magazine (along with the "American Rifleman"), and use of various guns I've earned, I feel I know small arms fairly well. If at all possible could you tell me where I could get a sling for an M1 Carbine?

Bill Barnes  
Bristol, Tennessee

Thanks for the good word. Numrich Arms Co., West Hurley, N. Y., has carbine parts and may be able to help you.—Editors.

### Shooters, Speak

I just want to say that I enjoy GUNS magazine very much and look forward to reading the future issues. I especially like ar-



# ARMS LIBRARY

**IDENTIFICATION OF FIREARMS**  
Major Sir Gerald Burrard, Bt.  
(Fadco Publishing Co., \$8.50)

The police scientist must combine practical experience with being well-read. There are several books on "forensic ballistics," and this is one of the major contributions to the literature. Well-illustrated, its 200-odd pages, first published in 1934, have been brought up to date in this third revised edition of 1957. Major Burrard is one of England's foremost arms writers and experts, qualified by years of gun-crank and sporting enthusiasm to write in many fields. As an expert witness in firearms cases, the author has the knowledge and background to prepare a book such as this.—WBE

**RIFLES: A MODERN ENCYCLOPEDIA**  
By Henry M. Stebbins  
(Stackpole Co., Harrisburg, \$12.50)

If time-capsule scientists proposed to select one volume from the vast lore of arms literature to reflect to future ages the state of gun information of this century, this latest book by "Doc" Stebbins would come in for a look. Though priced high, it is a big book, and full of information of use. Of especial interest to this reviewer was the first part of the book, a short modern history, discussing gun designs and how modern times have effected changes in them. The experienced gun crank will want this one to complete his library; the novice with some understanding will want it; and as a gift volume to help a beginning enthusiast get orientated in his field, *Rifles: A Modern Encyclopedia* has few peers.—WBE

**TEN OLD GUN CATALOGS**  
**DWM AMMUNITION CATALOG**  
Edited by John T. Amber

(The Gun Digest Co., Chicago, each \$7.50)  
Reprinting classic, unobtainable material, is a trend in the gun literature field, now that much of interest is currently being discovered in the old catalogs of arms and ammo makers long since gone by. Most recent of these reprints is the DWM Catalog for 1904, a slim volume measuring 9 x 12 inches, 65 pages of printed material plus a facsimile of the original cardboard covers. Contents are listings, illustrations, and detailed dimensions of every cartridge made by the German loading company, Deutsche Waffen und Munitions Fabriken, at their Karlsruhe plants. Illustrations are clear, full scale, line cuts. Cartridge collectors and advanced specialists in German arms lore will find this virtually unobtainable cartridge information invaluable.

Second of the Gun Digest reprints is a re-do of Satterlee's "Ten Old Gun Catalogs." First issued in 1940 in a small total of 300 copies, and later 100 put out by Stoeger's in 1943, this compendium of ten early American arms makers' or gun sellers' catalogs has until recently sold for \$25 or more on book sellers' lists. Reproduced in accurate, clear facsimile are: Merrill, 1864;

(Continued on page 59)

# DON'T GAMBLE

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*fogProof*   
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# Weatherby

## ON HIGH



*Weatherby's*

SPORTING GOODS



Hunters who demand high velocity to develop bullet energy have built big Weatherby business. Inventor's latest design is all-new bolt rifle called Mark V.

SINCE THE BEGINNING of time, man has sought progress, and speed has been a symbol of progress in many fields. The wagon train has been replaced by automobiles and trucks, by streamliner trains, by planes that sweep from coast to coast with sonic speed. And in guns, the military services long ago abandoned the old black-powder .45-70's in favor of more modern arms and more modern loads.

In the field of hunting arms, progress has not been made in such swift strides as have been made in other fields, but hunters and experimenters have sought down through the ages for faster projectiles, whether arrows or bullets. Up to a point at least, this search has been successful. But even today, the question, "Which is better: the light-weight bullet at high velocity, or the large, heavy, slower-moving projectile?" produces bitter argument among shooters, with complete conviction on both sides. It is a question few men can answer with real authority on the basis of their own experience, because the comparative scarcity of game animals, combined with the pace at which we live today, offer only a few the opportunity to test thoroughly the opposing claims as to which bullet truly kills most effectively.

Most hunters, like most other people, are prone to draw large generalizations from even meager personal experience. For example, the man who shot his one and only grizzly with a .25-35 using the 117 grain Remington belted bullet bases his judgment on that experience. If his grizzly fell stone dead when the bullet struck,



Practicing what he preaches, high speed advocate Weatherby shows Alaskan Brownie shot with .300 WM.

# VELOCITY

**HERE IS THE OTHER SIDE—  
CALL IT THE NON-KEITH SIDE—  
OF THE BIG-BULLET versus SMALL-  
BULLET-HIGH-VELOCITY DEBATE**

By ROY E. WEATHERBY



then that man from that time on will be hard to convince that the .25-35 and the 117 grain bullet is not the right combination for grizzlies.

However, if the same man using the same gun and the same load had failed to kill the same animal, he would be just as firmly convinced that the failure was due either to the .25-35 caliber or to the bullet. If it was the 180 grain Silvertip in the .30-06 that did not stop the animal, then the .30-06 did not have sufficient killing power or else the Silvertip was not the right kind of bullet. . . . The next year, the man uses the 150 grain bronze point and kills his animal. From that time on, this is the *only* bullet he will use. Thus are conclusions drawn from isolated incidents, or at best from a few cases.

Being in the business of serving hunters all over the world, I receive hundreds of telephone calls and thousands of letters from people telling of their experiences. Their conflicting stories are nothing less than amazing. "would not shoot another Silvertip bullet," says one man. "They

tear up game so badly there isn't any meat left." The next hunter complains that the same type bullet did not expand at all, that it went completely through his animal and did not kill. Another pair makes exactly similar and equally conflicting complaints about the bronze point, or the Core-lokt, or the soft point. And so the story goes, on and on ad infinitum.

We all know that the behavior of the bullet depends (a) upon the velocity at which it is travelling when it makes contact, and (b) upon the part of the animal hit. If the muzzle velocity of the bullet is 3,000 feet per second, by the time it has reached an animal 400 yards away the velocity has dropped to not much more than that of the .22 rim-fire. Thus, the bullet does not have the same effect as it did at closer range.

Recently, while compiling ballistic information at one of the ranges on the west coast, we set up 5-gallon drums of water for targets, shooting at them with the .30-06 and the .300 Weatherby Magnum, using 180 grain soft point





Weatherby outfitted recent All-Girl Safari led by Beverly Putnam, with supplies and a few guns.

bullets. The .30-06 shell burst the seams of the drum, but it was still intact. Using the .300 Weatherby at some 500 fps more velocity, water sprayed into the air like a geyser. The explosion was terrific. It was impossible to tell whether the bullet ever passed through the other side of the drum, for it was blown into bits.

Experiments were run on half-inch hardened armor plate where the .30-06, the .300 H&H, and such calibers merely made a copperish smear, yet all calibers of the Weatherby high velocity bullets penetrated cleanly.

Tree trunks 6" and 7" in diameter were shot with the average rifle, with the bullets passing through the tree; but when using 500 to 700 feet more velocity in our magnums, the disintegration of the bullet was so great that it literally cut the tree in two.

It is only a question of time, in my opinion, until our presently popular .270, .30-06, etc., will be as obsolete as yesterday's .45-70.

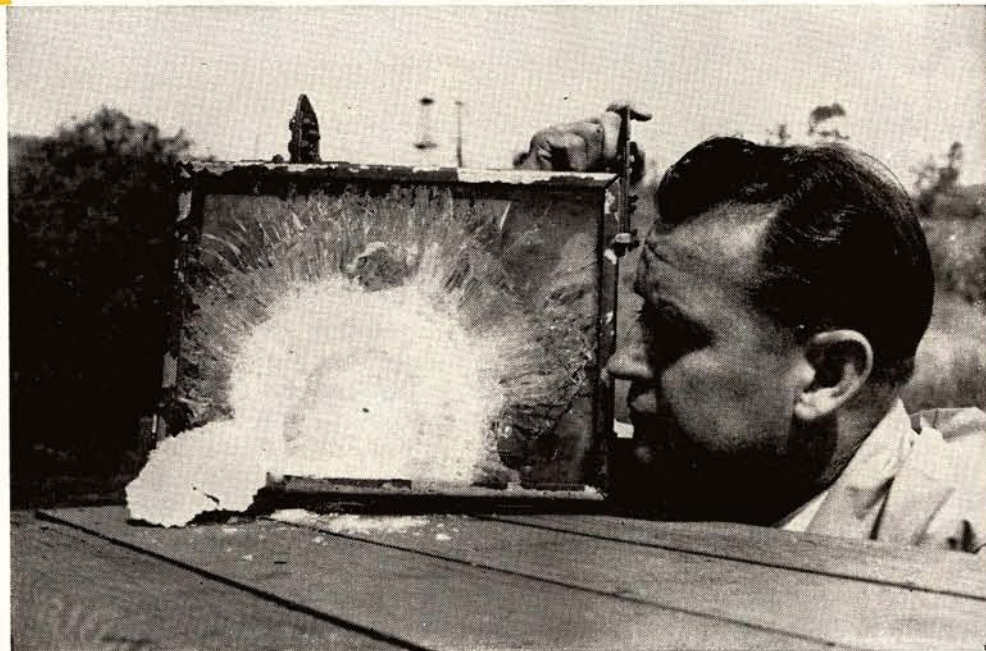
This velocity story is an interesting one. At one time not too far back, 1700 fps was considered extremely high



Lineup of Magnum Weatherby calibers shows big case proportion to bullet size. More powder gives more power for one-shot kills, designer claims.



Much game was shot by Weatherby on African hunt in extensive bullet-testing safari. Author has also shot in Asia, Canada.



Penetration of .300 WM is revealed by completely holing a three-inch armored car bullet proof window.



velocity. Today the .220 Swift shoots a projectile above 4,000 fps. Why is the .270 WCF so popular today and considered a better killer than the .30-06, even though the bullet is smaller and lighter? There is only one reason—velocity.

Now let's move up to the high velocity magnum calibers that move the 150 grain .30 caliber bullet at 3700 fps. Not only does it give us more killing power but a much flatter trajectory, making it easier to hit your game at unknown distances. This is hardly surprising. The .270 WCF shooting the 130 grain bullet travelling at 3160 fps makes a better killer than if it were travelling only at 2500 fps. Does it not stand to reason that if you could push that 130 grain bullet at 5,000 fps it would make a most phenomenal killer?

On one of my recent trips to Africa I personally shot more than 50 head of game. The other members of my party were also shooting one or another of our high velocity rifles, ranging from the .257 through the .378 Weatherby Magnum. In my particular camp, we shot more than 150 head of big game. We spent a great deal of time dissecting



Heavy African horned game was killed instantly by the author using 105-grain .30 bullet moving at 3600 fps.

this game and performing autopsies to ascertain the cause of death.

We shot them with the 87 grain bullet at 4,000 fps, the 100 grain at 3700 fps, the 130 grain at 3600 fps in the .270, and the 150 grain .300 at 3600 fps. By the time our safari ended we had made one important discovery, and that was how little we knew about killing power. We recalled the articles we had read in various magazines in which an arms editor would write that you must have a 300 grain bullet to kill an elk, or that the hollow point or the Corelokt or the Silvertip would kill an animal cleaner and quicker than a bullet of some other type construction, or that one particular caliber of rifle would do a better job than another. We wondered how these people knew; because on this and other expeditions we had shot numerous and various types of game under all conditions and with every conceivable type of rifle, with autopsies performed by physicians, and we still didn't have the answer.

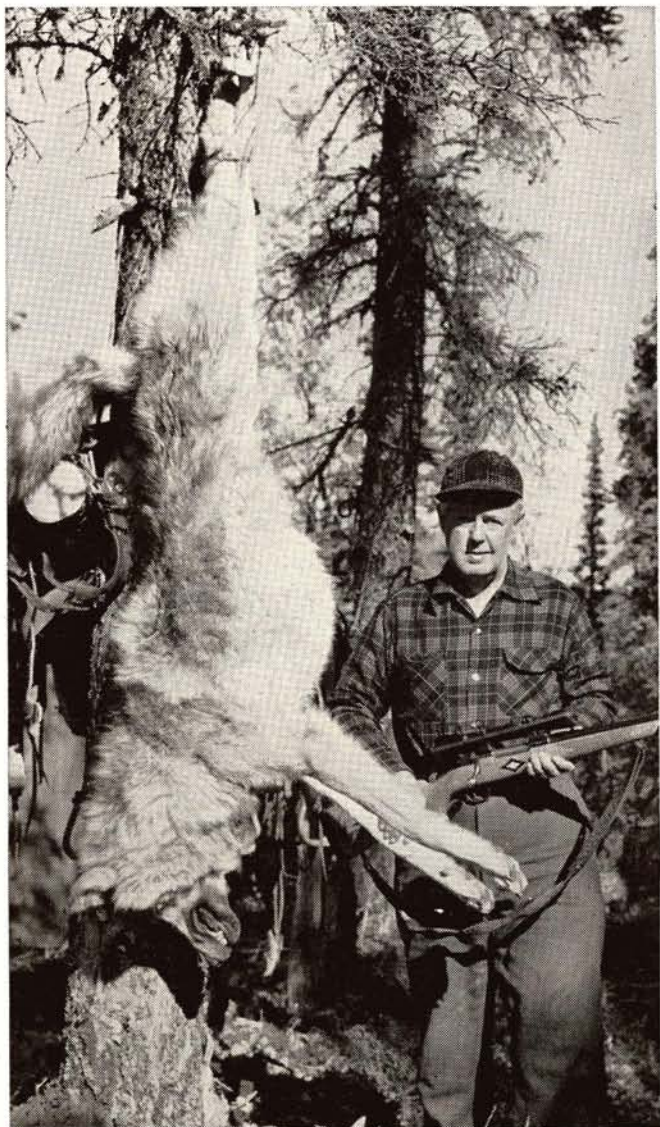
Sometimes we would shoot an animal and, by all that was right, it should have dropped in its tracks; but still it would keep on running. Again, many times the animal was not hit properly, but still it would drop dead on the spot.

We learned that if we used small caliber high velocity bullets the animal could not be too far away, because the bullet would lose too much velocity and would not disintegrate inside the animal's body. Once you get the small caliber bullet down to a velocity where it will not disintegrate, then the heavier bullet is far superior. But if you can get that small caliber bullet to disintegrate inside the animal's body, it will kill anything on the face of the earth.

I have killed 700-pound zebra with the .25 caliber 87 grain bullet—not just one, but many of them, with phenomenal one shot kills. I have seen many zebras run away carrying a 300 grain .375 caliber slug, or even the 500 grain .470. I have killed wart hogs, waterbucks, wildebeest—almost every kind of animal in Africa—with the 87 grain .25 caliber bullet, the 130 grain .270 caliber. And the 150 grain .30 caliber bullet travelling at 3600 fps proved to be one of the finest long range cartridges I have ever used. It has enough weight to maintain its velocity at a greater distance and still break up inside the animal's body.

When these bullets disintegrate they make a terrible mess of things. There is a great destruction of tissue, and no animal can withstand this kind of shock.

However, there are exceptions. One afternoon I shot a Peters gazelle. This animal is (Continued on Page 37)

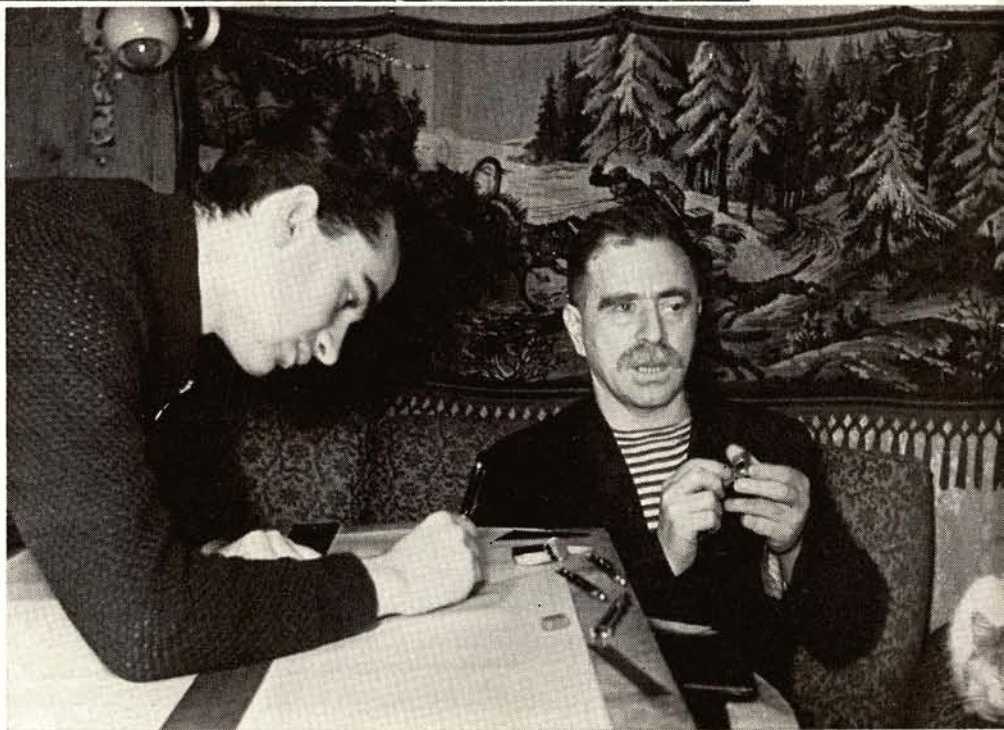


Big 125-pound Yukon wolf was shot at 310 yards by famous outdoorsman Jim Bond using his .300 Weatherby Magnum.





Margolin works at home on his gun designs. Blind craftsman alters .22 with file by touch.



Inventor describes new shape of pistol part to draughtsman who makes dimension drawing.



# THE MAN TO BEAT IN MOSCOW



Five-shot MTsZ-1 .22 is Margolin's latest bid in target automatic design.

**HE IS NOT A MARKSMAN, CANNOT EVEN SEE HIS GUNS**

**BUT IF SOVIET SHOOTERS WIN AGAIN HE WILL SHARE THE VICTORY**

By VICTOR MARYANOVSKY

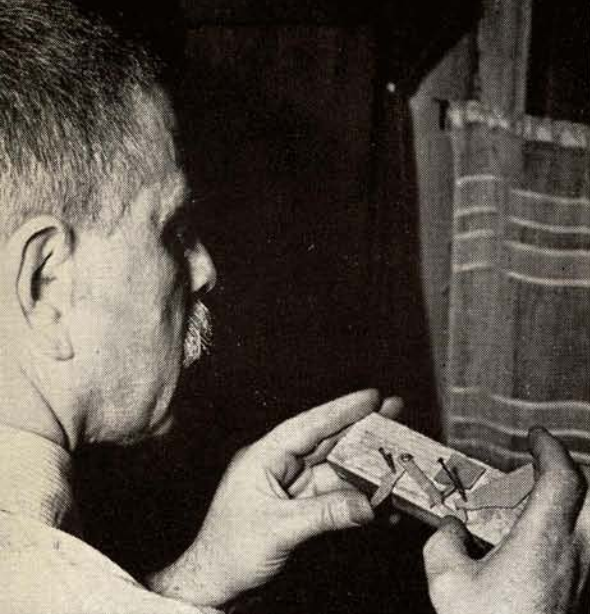
**M**OSCOW TARGET SHOOTERS are hosts this year to the marksmen of many nations. All are competing at the August, 1958 meet sponsored by the International Shooting Union. Western shooters will see many new Soviet sporting arms on the ranges. But new weapons will not be the only adversaries the visiting shooters must compete against, nor yet the sharp-eyed Soviet marksmen who have won honors in many countries recently. No, the man to beat in Moscow will not be on the firing line, except as an observer. And he will do little of that. For arms designer Mikhail Margolin, inventor of the fast-firing .22 which triumphed at Caracas, and of the upside-down pistol which created such a controversy at the Melbourne Olympics, is blind. He has never seen his guns.

Margolin's career has paralleled that of the American, David M. "Carbine" Williams. Both worked under handicaps. Williams designed the .22 conversion for the U. S. army automatic; Margolin built a sub-caliber version of the TT33 Tokarev service pistol. Williams modified the Browning machine gun for .22 training; Margolin did the same with the Degtarev drum-fed Soviet light machine gun. The 10, 15, and 35 shot clips Mikhail made for the machine gun aided him in developing smooth-feeding magazines for his later sport automatic pistols, such as are now in the hands of Soviet pistol marksmen.

Margolin's first international success came with the success of his pistol at Caracas, Venezuela, 1954, at the competitions for the world title in marksmanship. Rifle shooting had ended with a notable victory for the Soviet team, and small bore pistol shooting was about to begin. But many observers felt that would be the end of victory for the Russians—they could not boast of great achievements in pistol competition; they had nothing to match the German Walther, or the American Colt, for rapid-fire shooting.

Then Nikolai Kalinichenko took his place at the firing line. The first shot scored, and the next. . . . In two days of shooting, 60 shots, Kalinichenko scored 584 points, beating the world record set by Benner, the American. The team record was carried off by Soviet marksmen who scored 2,317 using the new pistol of Mikhail Margolin. Behind that pistol is quite a story, one I had to find out from Margolin himself. Visiting his apartment, I entered a small room. Ancient firearms hung on the walls, and there are books on the shelf. Next to it is a bed and a plain table. There is a small vise fastened to the table, and on it are files, little hammers, a brace and other tools. A stocky, graying man of 55 stands near the table, in his hands a small piece of wood with cardboard "parts" attached to it by nails. Margolin's fingers move carefully over the mechanism "watching" its inter-action.





Studying new sear release, Margolin adapts double action system to fast-lock-time target (automatic) pistol sear.



Son reads to inventor of shoots won by MTsZ's in the hands of international marksmen like Tcherkassov (below).



"Still too short," he murmurs and, putting the piece of wood aside, he picks up scissors and begins to cut a new piece out of thick cardboard, absorbed in his work. Margolin is a dedicated firearms inventor and when he talks, it is of those things which are important to him; his inventing, his designs. Margolin's enthusiasm for gun inventing developed shortly after a stray bullet during the Russian Civil War in 1922 plunged him into a world of darkness. Since then his passion for technology has grown stronger, sometimes amounting to an obsession. Margolin's hobby had been firearms, even as a lathe operator's helper at 19, and in service as a Black Sea sailor and as commander of an army platoon. During his service in the army he had handled various pistols, the Smith & Wesson, the Colt, the Nagant. He was familiar with the designs to the

minutest detail; now that he was blind, he often caught himself thinking of changing various parts of pistols, simplifying and improving their design. But there were days when Mikhail was filled with despair, not because his designs seemed too bold, but because he felt so helpless. He knew that among the blind were many renowned engineers, scientists, doctors. "Was there ever a blind designer?" he doubted. His schooling consisted of three years of elementary school and this knowledge, too, had been forgotten during the stormy years of the Civil War. But he did not stop with dreaming.

First came the study of Braille. Friends helped him to study mathematics, mechanics and strength of materials, all essential subjects for the arms designer. His wife read aloud to him from textbooks and books on the history of firearms. He collected guns, enlarged his knowledge of various weapons systems. Most important was his splendid memory: within a few years he was a match for any engineer. As for firearms, there was no disputing his superior knowledge. He got acquainted with the latest models of weapons, took them apart dozens of times in order to let his sense of touch give rise in his mind to a mental picture.

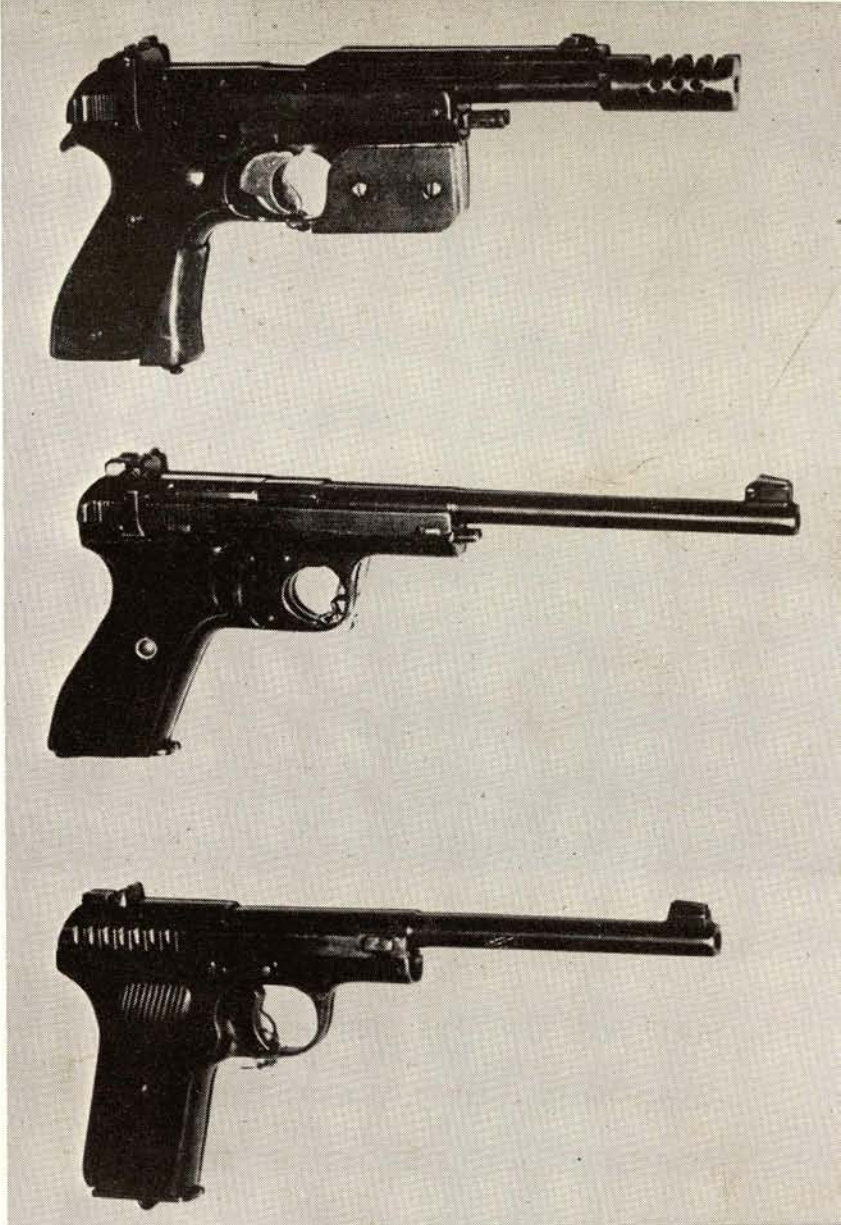
In the early thirties he started to design sports weapons. His first two pistols were failures. He thought of making a ten-shot self-loading rifle. The first model was crude. Unable to draw the gun parts on paper, he had to explain his ideas by gestures. A solution to Margolin's deep personal problem of communicating by his hands was found unexpectedly, at a sanatorium where the striving inventor had gone, depressed, to rest. He was bored by idleness. "Suppose you try clay modelling, that may



be interesting," suggested his roommate. At first he worked on animal figures: elephants, tigers, horses. They were pretty good. And then he tried making gun parts in plasticine. It was an excellent idea, and turned his ideas into solid form. Then a vise appeared in his room and he began to work with bits of aluminum and wood, or cardboard templates of mechanical shapes to check the principles of lock work and hammer-trigger assemblies. But it was a long time before he produced his first successful design, a semi-automatic sporting rifle. It appeared in 1934.

The sporter was a smallbore autoloader with a demountable barrel and 10-shot magazine. The designer also progressed with a .22 practice machine gun using magazines of 10, 15, and 35 cartridges. As a result, a day came to Margolin of great honor, one which the most highly skilled gunsmith could be proud of. The blind man was invited to work at designing offices in the big government small arms factory at Tula, so noted through the centuries for its metal workers' skill that a Tula blacksmith, Levsha, is said to have shod a flea. There Margolin studied with Russia's greatest gun designers, Tokarev, Shpagin, Simonov. He continued to improve his favorite firearm, the .22 pistol.

Designed at first around the military Tokarev pistol frame, Margolin's modification used a new 10" target barrel and a slide with forward limbs to compress the spring below the barrel. A cross bar held the assembly together somewhat like the old Colt M1902 .38 automatics were built. But Mikhail recognized this was only a start. He worked up numerous models, varying in grip angle, sighting arrangement and detail of slide construction. But all had the exposed barrel with the slide ribs below it. (Continued on Page 55)

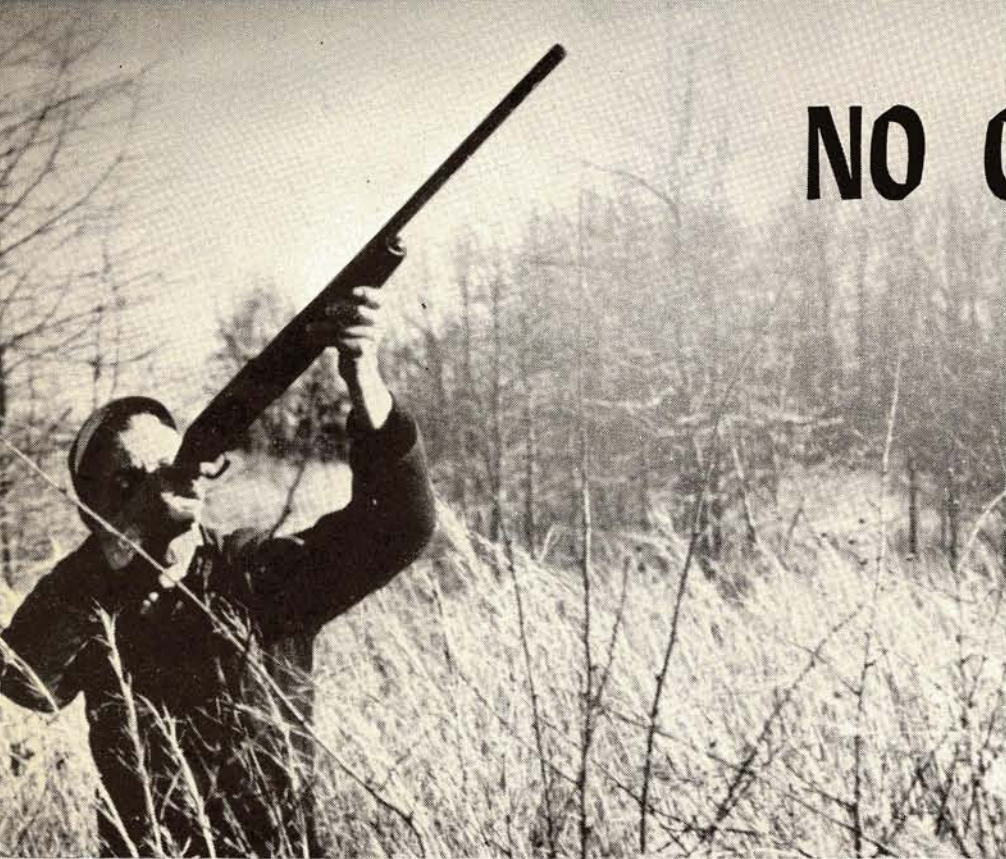


Early Margolin pistols all show slide bars at front. Bottom is modified Tokarev. Rear sight bridge does not move with slide.



Rapid fire pistol used by Soviet pistolmen at Caracas was best of blind inventor's standard designs, had elaborate muzzle brake and weight with fixed rear sight bridge.





# NO OFF SEASON

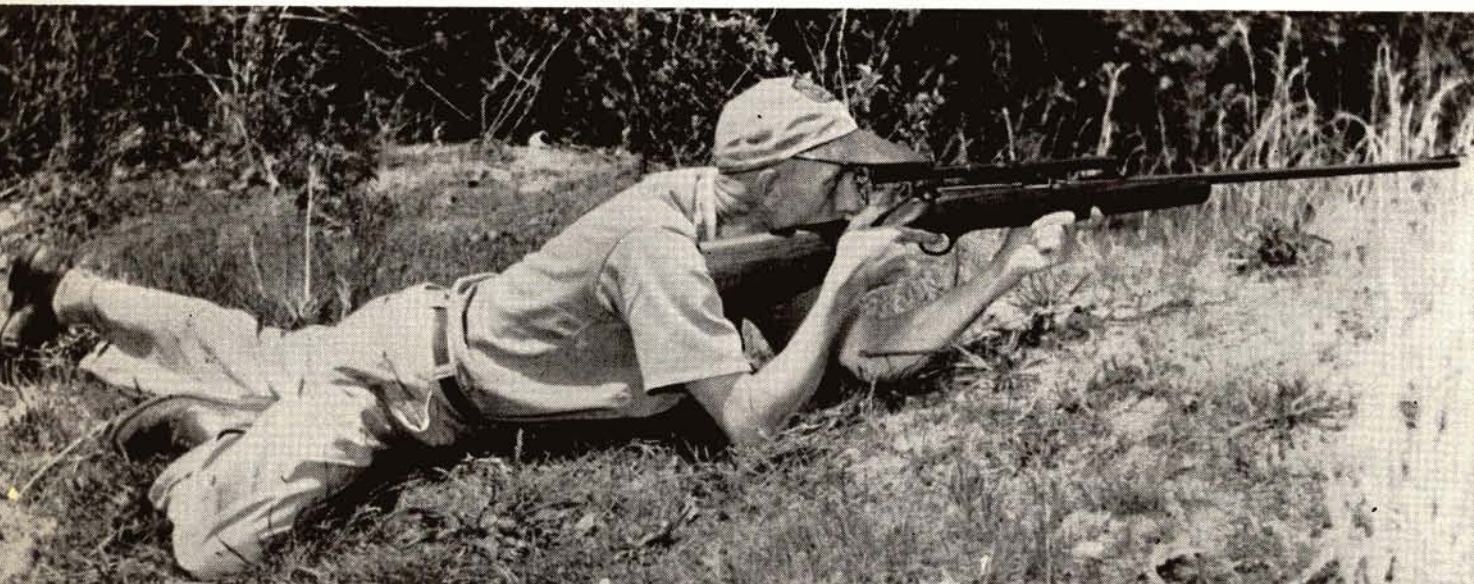
Shotguns are for crows is the rule when stalking in brush country. Vinson favors M58 12 gauge for fast shooting.

By CARLOS VINSON

**ARE YOU ONE OF THE MANY  
WHO WISH FOR A GAME TARGET  
FOR OFF-SEASON SPORT? IF SO,  
HERE IS YOUR TARGET—  
HERE'S HOW TO HUNT AND HIT IT**

**I**N MANY SECTIONS of the country, crow shooting can very easily be a year-around sport. It may be curtailed by rough weather in the extreme north, but from the upper Mississippi Valley south and clear across the continent there's really no good excuse for hanging up your crow guns at any time of the year. And "crow guns" means any gun from .22 plinker to varmint to whatever scattergun you may happen to favor.

Especially is this true in the farm areas where row crops and timber tracts enter into the terrain picture. The country



Dull clothes and a careful stalk will put hunter within smallbore rifle range of crows perched in trees. Vinson tries new Ithaca X-5 autoloader on black pests.



# FOR CROWS



Calling crows works best when gunner stalks within shotgunning range of new nest, sets up a racket to draw curious crows close.



Long shots with X-5 Ithaca frequently yield success.

near you may not have one of the really big crow-roosting spots where crows wing in by the thousands, but that need not discourage you. Shooting in the big crow-roosting areas is truly lush for limited seasons during the year, but it may be slim or non-existent the rest of the time; whereas most other farming areas hold their normal crow population the year around and the shooter who knows how can find sport any time he wants it. Simply vary the methods and equipment, and the crow will provide you with targets.

In sections where no big crow roosts exist, many of the really smart crow shooters turn to rifles in the fall, after frosts and freezes remove the leaves from the trees. Crows seem to be able to judge the effective shooting range of shotguns almost to the yard, and in winter woods where cover is lacking they will fly before you can reach them. But they are not so accurate in their judgment of rifle ranges.

Only .22 caliber rifles are advisable in the more thickly settled farm areas, and even then you must be very sure your bullet will be stopped safely. In open areas, such light varmint calibers as .218 Bee, .219 Zipper, and .22 Hornet may be used. These latter rifles increase the killing range, of course. The little .22's, even with Long Rifle cartridges carrying solid lead bullets, are not so hot on crows beyond 75 yards. I have clobbered the black pests with .22's at ranges up to 90 and 100 yards, but such shots are the exception rather than the rule. It is much easier to score with a .218 Bee or a .22 Hornet at 150 yards than it is with a .22 at 80 yards.

In either case, the rifle should be scope sighted. On a .22 auto-loader that I use for crow shooting, I have a B-6 Weaver scope with tip-off mount. Up until recently the rifle was a Marlin Model 88-C, but I now have the B-6 scope on a new Ithaca "Lightning" (Continued on Page 47)





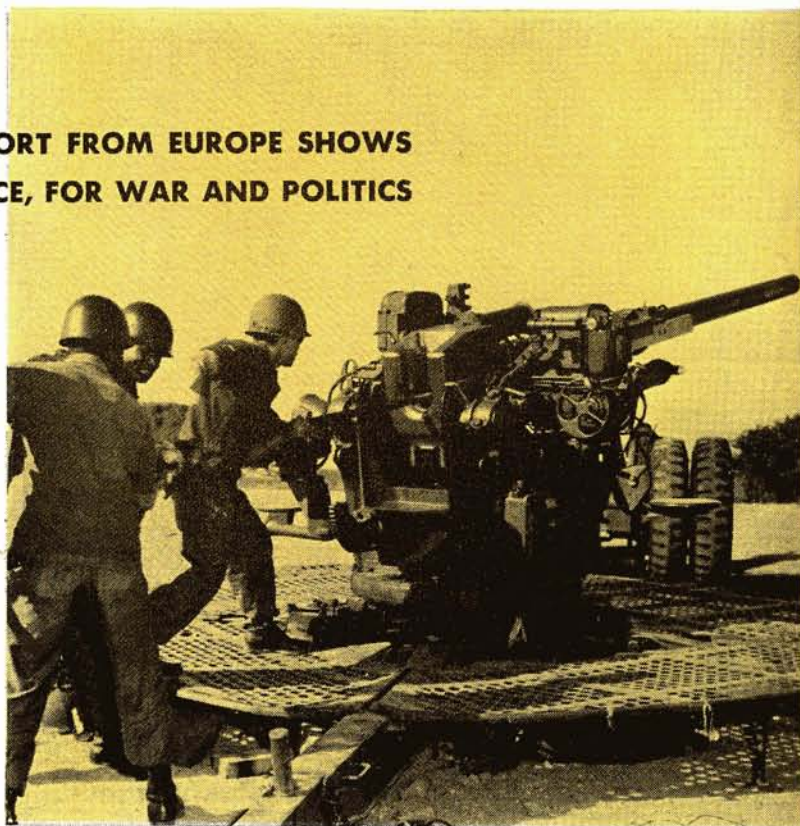
# The Miracle of Waidmannsheil

HAVE  
FUN  
WITH  
GUNS

By WILLIAM B. EDWARDS

## EXCLUSIVE GUNS MAGAZINE REPORT FROM EUROPE SHOWS VALUE OF ROD & GUN CLUBS FOR PEACE, FOR WAR AND POLITICS

HIGH ABOVE the little tourist town of Berchtesgaden on the flanks of the "Obersalzberg" is a burned-out mountain lodge and a labyrinth of bunkers and corridors hewn into the rock. Slightly above this lodge, Hitler's retreat, is the Platterhof Hotel, renamed Hotel General Walker. And there, where fanatical SS troops were scheduled to make a last ditch stand against U.S. invasion forces 13 years ago, I witnessed a remarkable union of friends. Linked in "freundschaft" were American soldiers and German jaegers, brothers in the common interest offered by the U.S. Forces Association of Rod & Gun Clubs, Europe. That these former enemies are today friends, seems a miracle. I call it the "miracle of Waidmannsheil."



European duty is serious business to men of 40th AAA in Germany, but R & G Clubs offer hunting recreation like waterfowling enjoyed by Cols. Layton and Richoi (left).



No word in English translates this; loosely it means "hunters luck." More precisely, it is that feeling of fraternity which exists between hunters and shooters all over the world, regardless of national boundaries or language. As set into practice in Germany by the Rod & Gun Clubs, this friendship has forged a remarkable combination of recreation for U.S. forces stationed there, combined with some highly significant political and military values less often publicized.

The Department of Defense thought the story of what the Rod & Gun Clubs were doing, what they meant to defense, was pretty important. My orders to Europe via Military Air Transport Service concluded with the terse statement "The travel to be performed is necessary in the public service." With these orders I was authorized to obtain air or ground transportation in U.S. Army vehicles. In Frankfurt, Munich, Berchtesgaden, Nurnberg, and the other



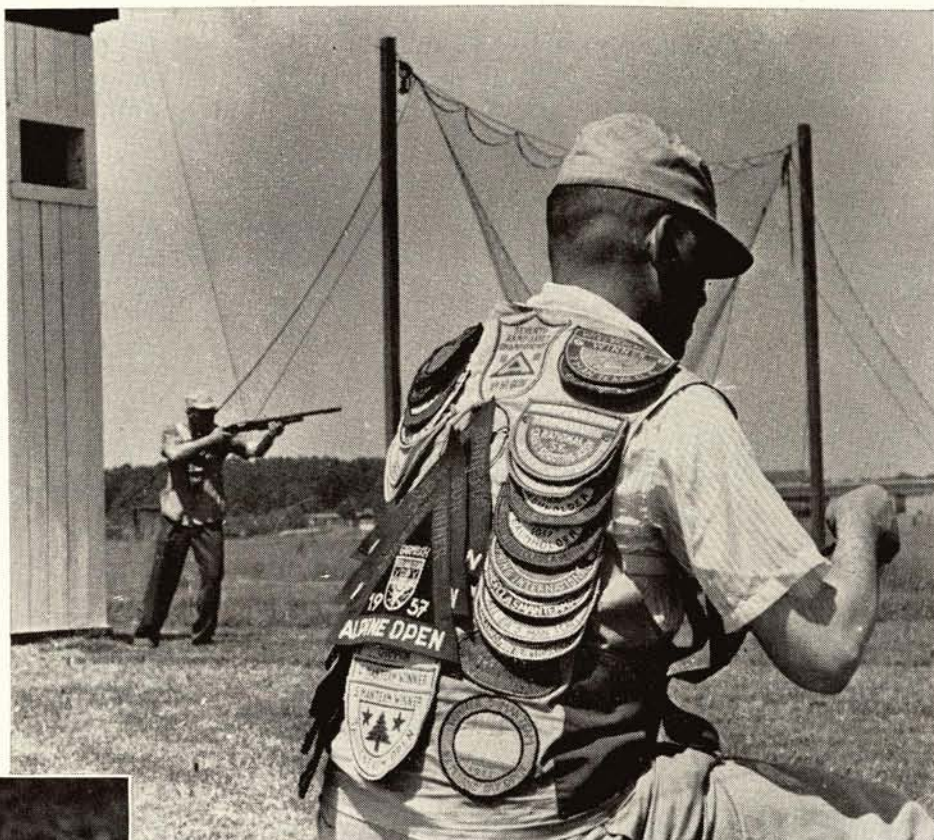


Handsome eight-year old gemsbock was taken by T/Sgt. Al Straub firing Mannlicher. Hunt took hours of stalking. Guide (left) is jaeger Carl Grund, noted German hunting author and Rod & Gun Club officer.





Fred Henry at Heidelberg club cools with Coke, lets M12 cool.



American-style skeet has swept the Continent. Tons of shells are burned up at Rod & Gun Clubs annually. The Association has sent skeet teams to Stockholm, Moscow, other important shoots.



Ardennes tusker was clobbered by slug from 12 ga. Remington. Belgian forest has good hunting.

cities I visited, Army taxi was at my service; Lt. Taylor of the Nurnberg R & G Club, flew me to Heidelberg on my way home in an L-5. And I found out why the Rod & Gun Clubs, in a sense the Army's recreational stepchild, surpass any other leisure-time facility abroad in political and military value.

Recreationally, the R & G Clubs are self-supporting, do not draw Army recreation funds. Club members kick in a couple of bucks per month to one member who is strictly supervised by the Army's accountants, keeps precise records of club funds. Members include military—officers and enlisted men—and civilian personnel. At the club shoots the shoulder bars are off and sportsman's courtesy replaces military discipline. Colonels and cooks bust the clays in turn, and fork over the low fees for ammunition and targets. A French firm, Laporte in Antibes, near Nice, offers immediate airport pick-up service on its clay birds and automatic or hand traps to clubs which may have a plane scheduled through Nice and can stop for a minute. In

France, about 20 clubs are active; German clubs number close to a hundred; others are in England (about a dozen); and there are several in Africa, Italy, Holland, Greece, Spain, and Turkey. Memberships range from a few dozen to a couple of thousand—the Bavarian R & G Club at Munich has over 1800 members in several chapters.

Each club has a custodian who is responsible to the Association's accountants for his business affairs. He buys guns, ammunition and shooting materials from manufacturers and distributes through the club store to members. Prices are often surprisingly low: for example, stripped of their Stateside taxes, U.S. guns are less in price than German guns of equal grade. A Winchester Model 70, listing in the U.S. for \$129.95, costs the clubs \$72.43, and they retail at \$79.50! Other U.S. guns and ammo sell at similarly low prices. Despite price competition from European brands U.S. guns are still remembered, still asked for, and still supplied by the E.E.S., European Exchange (PX) Service, or by European import





Sgt. Alan Lubic of MP's in Berchtesgaden holds auerhahn he got with shotgun. Bird is important mountain trophy.



Club exec M/Sgt. Porter Melton sells Sako .222 rifles among U.S., foreign arms displayed in Munich Gun Club.

distributors of U.S.-made guns, like Sidem International, Brussels wholesaler of Colts, Rugers, Smith & Wessons, High Standards.

Numerous European brands of guns are also handled by the Clubs. A typical club, that run by the USAF Hq 388th FBW at Etain, France, numbered a 722 Remington .222 (a very popular European caliber), a CZ lightweight Hornet, a dolled-up whiteline Marlin .30-30, a Remington 760 pump, a Winchester M70, two German J.G. Anschutz .22 match rifles, an M52-C. and several U.S. and foreign .22 repeaters, all in its display racks at one time. At Karlsruhe, Germany, the club had a smaller stock, but beside the wide brick fireplace was a big TV set, and over the mantelpiece, to give "gunny" decor, was a cluster of three rifles: a Soviet Mosin, an old Bavarian percussion musket, and an Albini-Braendlin breechloading musket. In Munich at the McGraw Kaserne, M/Sgt. Porter Melton, who will talk guns all day and all night, presides over a well-stocked shop in the club. A wide selection of U.S.-made scatterguns with Comps attached is on hand for the clay busters, while FN Mauser actions and barreled actions are a brisk item to G.I.'s who like to build up their own sporters.

The parent organization of the R & G Clubs is the Association, whose executive officer for three years has been Lt. Col. Victor Layton. Born in Vienna, brought up in France, a U.S. citizen. Col. Layton's assignment was to implement the "mission" of the Clubs.

Says Colonel Layton, "Through the Association, we ad-

vise the Commander in Chief, and influence the publication of regulations affecting hunting, fishing, ownership, sale, or import of weapons." The Clubs have had a tough row to hoe, but at the annual convention banquet I got a first-hand eyeful of just how well they have succeeded. The huge banquet hall, the Starlight Room, was jammed with an inverted U table seating several hundred people. Among them, 170 delegates from 75 clubs had come from hundreds of miles away to meet with numerous leading men in the German sporting and hunting field. At the end of a dinner of "gebratene Schweinshaxe," young pork hams basted till they were chicken-tender, the talking began. Distinguished jaegers, representatives of the Hunting Associations of the German l nder (the states), paid tribute in English and in German to the work of Col. Layton, who was returning to the U.S. after the convention, his tour of duty in Europe ended and his place as executive officer being taken by Capt. Gottfried Pletzer. Unmistakable high point of the proceedings came when it was announced by Hubert Selle, a German hunter high in the authority which regulates shooting in Germany, that the Deutscher Jagdschutz-Verband had accepted the representative of the Rod & Gun Clubs as a member of their high council, had actually given, in blunt terms, the occupying conquerers a vote in German affairs—voluntarily.

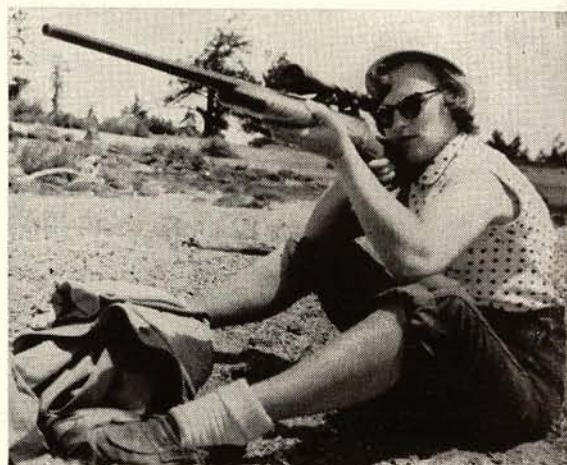
This novelty in the history of modern political processes reflected the significant political value of the R & G Club activity. Though Colonel Layton seemed perturbed that Army recreation funds were not (Continued on Page 50)





There was a coyote on the cross-hairs when picture at right was taken. The .270 knocked him over.

Whether for rock chucks (at left) or big mule deer (below), the .270 gets job done for this lady gunner.



# THE LADY PICKS A HUNTING RIFLE

**TRY BUYING THE LITTLE LADY A RIFLE OF HER OWN  
TO IMPROVE YOUR HUNTING FUN AS WELL AS YOUR DOMESTIC RELATIONS**



By SOL-BRITT L. WRAGG

**A**LL I SAID WAS that the .270 was a suitable rifle for a woman. Oh, I did add that I, personally, liked a 10X scope for all my shooting, from bunnies and chucks to deer; but it was the ".270 for a woman" bit that started the rucus. And what a rucus! I've learned over the years that argument is the bread of life to shooters, but this argument was special. Our gun shop hasn't seen such a hassle in years! It got so bad I had to retire to the background and listen to the men smugly dismiss my .270 as "no rifle for a woman!"

Well, I'm a woman, and I like the .270. I admit that I am a novice as far as the ability to discuss various rifle calibers, cartridge reloading, and technical problems are concerned. But as for actual hunting experience, I'll bet I have more time in the field to my credit than many men. Over a period of 11 years, I have run the gamut of calibers from the .22 Long Rifle through the .30-06, and in scopes from the 2½X to a 10X. I used the .270 with a 10X scope the last four deer seasons in California and Nevada. This same rifle helped me fill my deer tags each of those seasons. I have also used the .270 for jack-rabbit hunting and, while I didn't get every rabbit, I stopped a good many of them. No matter what the learned men state, I *still*





Still using the 10X scope, author zeroes-in the .270 for the deer season. This is serious business, and husband (behind shooter) uses target scope to spot the shots.

say my .270 has no excessive recoil.

My husband, Bob, is a gunsmith, and he has built up all of my rifles. Where most wives receive French perfume and filmy lingerie as gifts for Christmas or Mother's Day, I usually receive a new scope or other shooting paraphernalia. Last Christmas it was an FN action custom barreled to a .243 Winchester, stocked by Guymon with a new 2½ to 8X Bausch & Lomb on top. That, in my opinion, is quite a present!

The "breeze-shooters" in our area use our gun shop as a gathering place and there is usually a crowd every evening. One night a customer brought a friend to view our array of sporting rifles. Where most people invest in stocks and bonds or diamonds our fortune is our rifles. After making the appropriate appreciative remarks, the friend turned to me and jokingly asked which rifle was mine. Well, you know what happened!

The arguments that followed gave me food for thought. After mulling over the various ideas presented, I came to the conclusion that the men didn't know what they were talking about, because, of the eleven men present and contributing, not one suggested the same caliber as suitable for a woman. The atmosphere became pretty hot and heavy, yet by the end of the evening no agreement had been reached—not even a truce.

Since that evening I have interviewed 47 men composed of business men, loggers, civil service employees, city

hunters as well as year round hunters, which I thought represented a good cross section of the various types of men interested in shooting and hunting. Each man was asked the same question: "If you were to choose a rifle for your wife who was just beginning to shoot, which caliber would you select as being the most suitable caliber for a woman, and would you choose a scope or iron sights?" Their opinions differed drastically as to the final choice of caliber but their first reactions to the question were all responded alike—suspicious. Without Bob's help, I could never have pinned the men down to naming just one caliber. He had to convince them I was in earnest and merely wanted their honest opinions; that their choice would not be held over them in any way. I'm not joking when I tell you that this is a good example of the first answer I'd get, "Well, the .25-35 is a good caliber; of course, the .270 might be alright too; but don't forget the new Winchester .458."

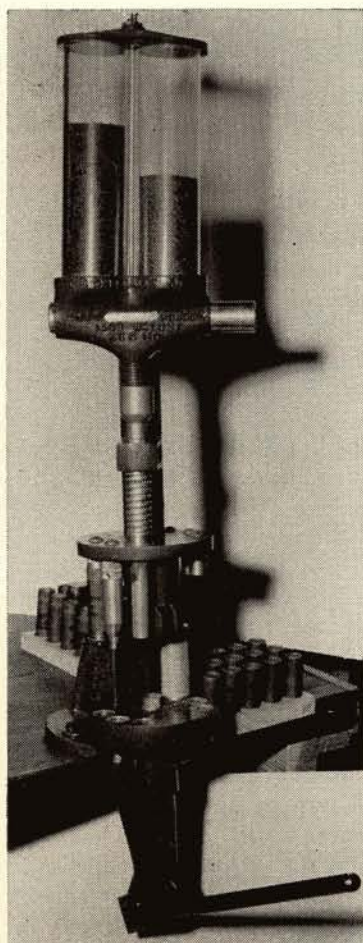
I've been a silent witness to countless bull sessions in our gun shop (men's bull sessions differ from women's coffee klatches only in that men's vocabularies are less confining), and I have always been struck by the confidence and self assurance displayed by the men in stating their opinions when arguing which bullet has flatter trajectory, or what scope has the best lens, or what load is best for which purpose, but I have at last found one topic on which the male animal would prefer not to (Continued on Page 38)



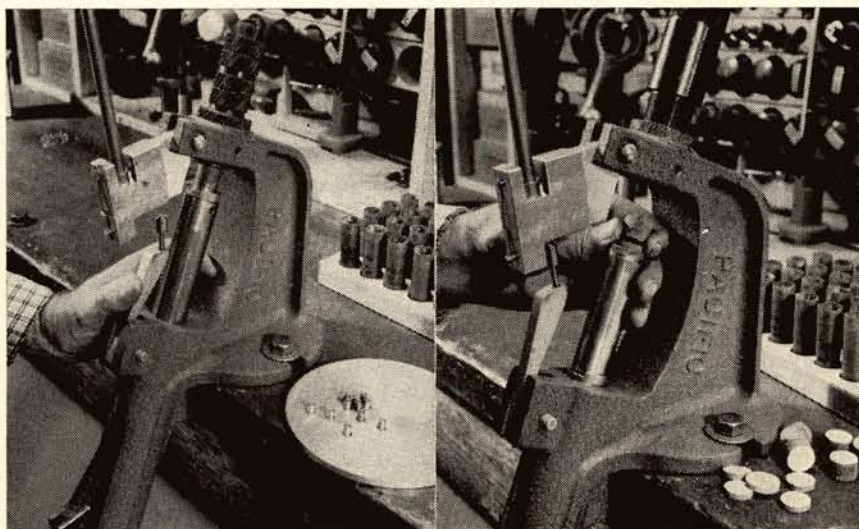


Reloaded ammo can offer economy for practical shooters, more shots per dollar spent at the traps. Cases should be carefully selected, cleaned, to work best in pumps, autos.

**PRACTICE AT THE TRAPS TAKES ON AN ADDED THRILL  
OF ACCOMPLISHMENT WHEN YOU ROLL  
YOUR OWN AMMO. YOU CAN DO IT EASILY, SWIFTLY**



CR loader exerts big pressure, finishes with solid top crimp.



Pacific "C" tool must have dies changed for successive operations but is easy to use. Primer is flipped below shell (left), wads are seated later.



# SHOTSHELL RELOADING FOR TRAP AND SKEET

By BURTON T. WHITLOCK

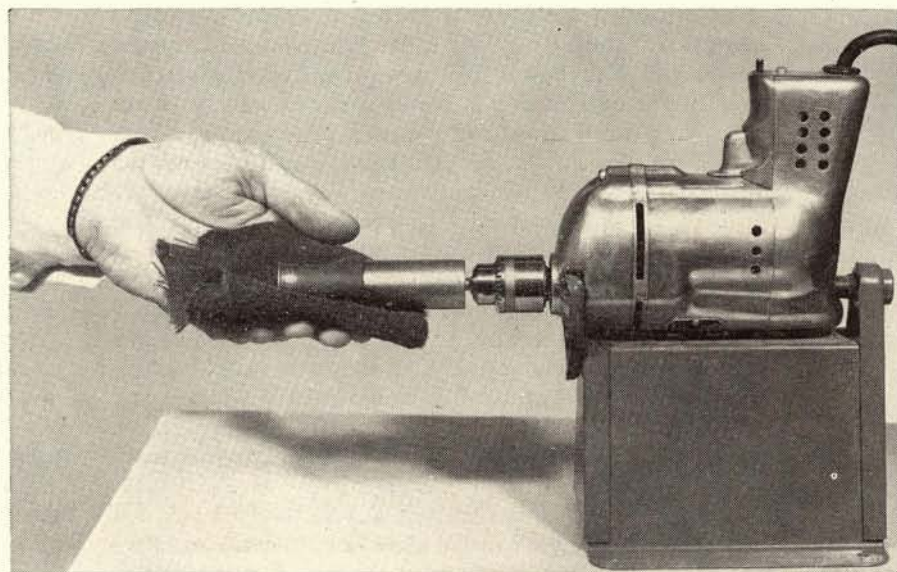
SHOTSHELL RELOADING for trap or skeet shooters eases the burden on the pocketbook and at the same time adds a lot of interest to the shooting game. It is sometimes hard to keep enough reloads ahead when shooting is in full swing, and one must learn to reload a lot of first-class shells quickly. But it is possible to load a lot of excellent ammunition in a short time and not be plagued with duds.

The basic requirement for a shotshell reload is the empty tube. At a big shoot, the scramble for empties is a sight to behold, but you can get good empties by having trap boys pick them up after shoots. The charge is usually 50c per target box full, and the boys will normally sort them.

Favorite brands for reloading are Western and Winchester. They are made of a very hard, slick, paraffin-impregnated paper that will withstand many reloadings. They take a good, firm crimp. Besides the regular base-wad, they also have an "overlay" wad. The overall base-wad construction is such that fewer filler wads are used, which makes reloading faster and cheaper.

Until recently, Remington and Peters empties have had a low base wad, needed extra filler wads to fill the case with any given load. Newest loads now have inside dimensions conforming closely to the Western-Winchester tubes, take the same wad column. Peters tube paper is paraffin-impregnated, thicker than Western and Winchester cases. Both are excellent for reloading.

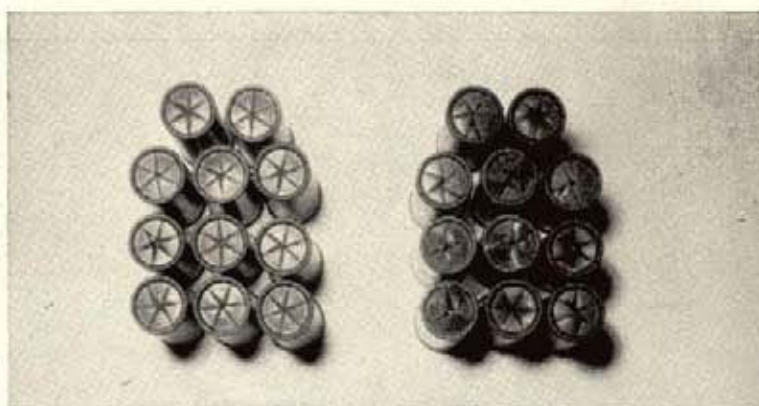
After being reloaded once or twice, the paper sometimes burns through and the head pops off, leaving the paper tube in the barrel. With modern smokeless powder this is very disconcerting, especially



Whit shell ironer aids cleaning, reshaping once-used tubes. Author considers case preparation critical step in accurate handloading.

Older Remington cases take long wad stack to make right length for working in pumps.





Neatly folded crimps finish off perfect reloads (left group), while batch at right are careless, scant on wad columns. Use of good tools like Thalsen (left) aids assembling accurate reloads.

when shooting doubles with a pump or automatic and this happens with the first shell. Selecting your cases with care will prevent this.

Federal and Canuck empties are similar to Remington and Peters, but the paper is harder and can be reloaded more times. Until the reloader has a lot of experience, he should stick with those standard empties. Alcan Co.'s Italian empties are good stuff for the loader who wants to start with new primed cases, but few are on the trap fields yet.

Western, Winchester, Federal, and Canuck tubes use the #209 primers, and Remington and Peters take the #57 primers. These are not interchangeable, being different in diameter; yet tools using an inside primer-seating plunger which press the case down over the primer, like the Acme, can seat bigger #209 primers in #57 size cases. Factory brand primers are available to reloaders, as well as some domestic made and imported primers, new to U. S. shooters.

Alcan Co. of Alton, Ill., markets #WW209F and #WW57F primers for their respective shell sizes. These are excellent for reloading, cost a few dollars less per thousand than American factory primers. They are .001" over-size to make an effective gas seal, and factory primers will fit loosely if later used in the same case. Alcan also offers #240 economy primers for use with their Super M Balistite and Acapnia powders. This primer with Super M

Balistite is truly an economy combination. The primer is rather short, hard to seat perfectly, and gas sometimes escapes around the primer and discolors the action and case head. But good gas sealing is effected if these primers are used in once-fired cases, or in cases that have not had the oversize Alcan WWF primers in them. Many report good success with this combination and you can save quite a lot by using the #240 Primer and Super M Balistite powder. It is necessary to use one of the two above powders as this primer is not powerful enough to ignite other powders. Select cases with factory primers—not the over size nickel-plated ones.

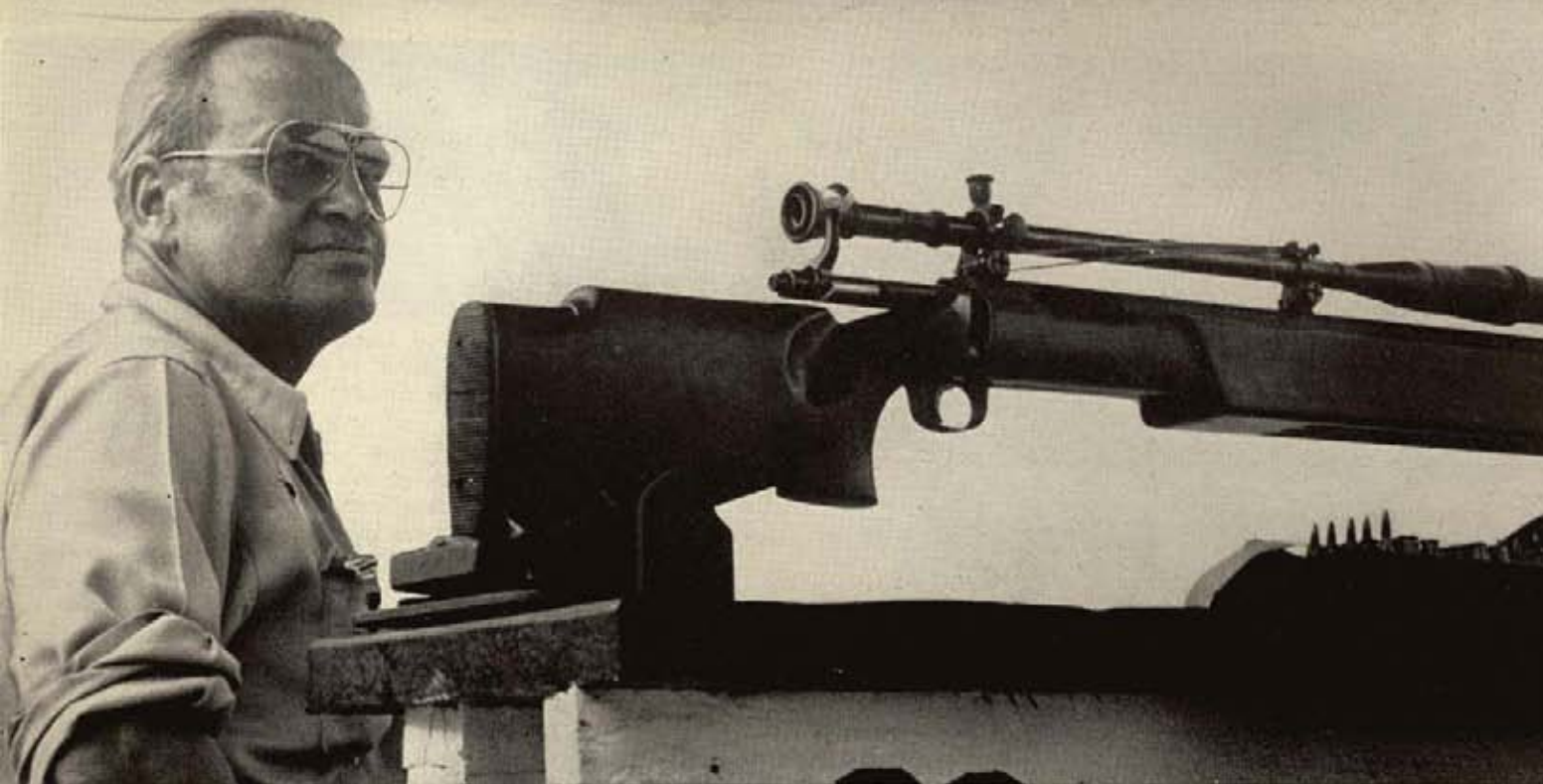
The entire primer of cup, cap and anvil constitutes a battery cup. It is possible to reprime the #209 battery cup with special refills available from Cascade Cartridge Inc. of Lewiston, Idaho, and the Alcan Company. Refills cost half as much as complete battery cups, and can be used with any powder. There is extra work connected with using these special refills. They generally are used only when regular primers are not available. Acme Industries (Appleton, Wisconsin) has a converter for repriming #209 battery cups; others are being introduced.

Reloaders dispute the merits of these refills. I have observed that shooters reporting misfires are reloaders who do not take pains to put out a good reload in the first place. I prefer complete primers because they are faster, but the refills are welcome when nothing else is available. I have had no trouble with them.

Red Dot powder is the favorite used. Sooner or later most reloaders turn to it. It comes in small and large cans, and is very economical when purchased in kegs. Red Dot is a good target powder, used in factory shells for many years.

Alcan offers powders for all types of loads. The target shooter can use Nike, Super M Balistite and Acapnia. These powders (excepting Super M Balistite) are slightly more expensive than Red Dot. They have good ballistic properties and some can produce faster (Continued on Page 40)





Oregon barrel maker Ralph Pride set official bench rest world's record with CCI primers. Five 10-shot groups averaged .3430". Government also buys many CCI primers.

# BIG KICK IN SMALL PACKAGE!

**THE PRIMER IS THE HOT HEART OF  
ANY LOAD, AFFECTING BOTH ACCURACY AND PRESSURE**

By KENT BELLAH

**I**N A FLASH of white-hot fire, a primer expends its working life. The time is measured in micro-seconds. Dormant until a trigger is touched, primers set off an explosion-combustion sequence that starts a bullet on its way to a target. Produced by the billions, each composed of a trifling amount of copper and chemicals, they are so cheap we seldom give them a second thought. But in some countries, primers are more precious than gold—as, for instance, in Bangkok, Thailand, where wages average \$1 a day. According to rifleman Amphel Iddhikasam:

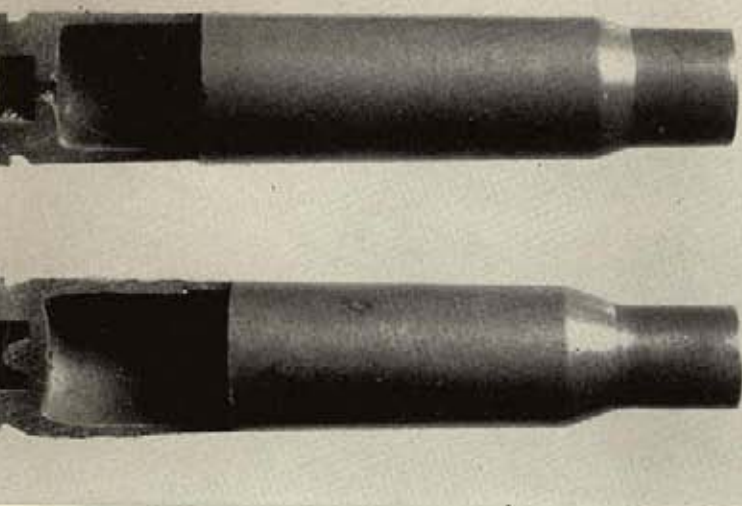
"One must pay 'tea money' (a bribe) amounting to about \$100 to the police for a license to purchase a gun. It's payable in advance, with no guarantee the license will be issued. Guns themselves are very expensive. And, finally, a

license to purchase ammo must be obtained from the police every 90 days. It allows the purchase of only 15 rifle, 25 shotgun, or 12 pistol rounds. Shotshells cost 60c to 80c each, and large rifle cartridges cost \$1.00 to \$1.20 each. This situation causes me to handload all of my ammunition.

"I recharge fired primers for my friends and myself, using an old corrosive formula. I am very lucky, as the mixture has only exploded twice. One accident put me flat in bed for some weeks. I couldn't move and my fingers became a white color from the heat of the explosion. I am also very lucky to own some Ideal dies from the U. S. I turn bullets on a lathe, using a copper tube filled with lead. Powder is salvaged from old artillery shells and ground up."

Fortunately, Americans don't have to spend six months





CCI No. 200 large rifle primer flares with sharp cone of fire and particles that saturate powder for good ignition.

Difference between Boxer or American-style case (top) and Berdan case is shown in cut-away view. CCI caps are for U.S. cases only.

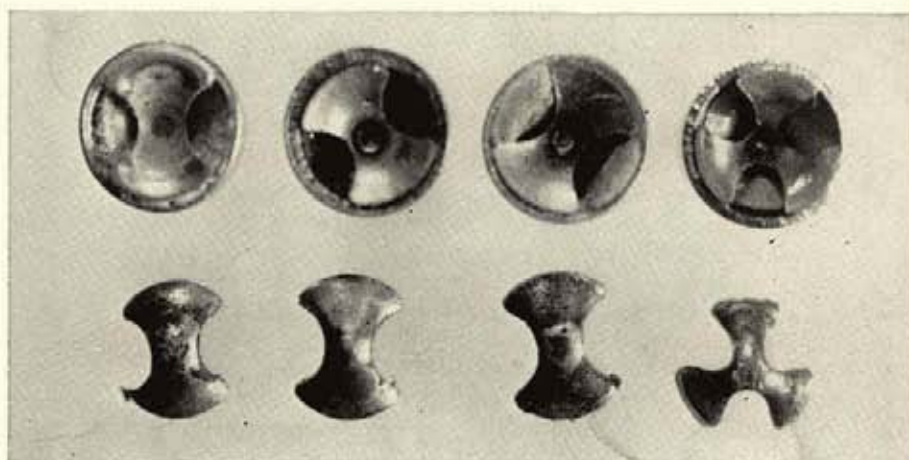
wages to buy a gun, plus half that figure to bribe the police for a permit, although some people would like to have it that way. Nor do we have to attempt the extremely dangerous job of making priming compound.

Just what happens when you bag a buck making a fast getaway? A clean kill means that you, your gun, and the cartridge were working as an efficient team. When the firing pin hit the primer, it pinched some impact-sensitive compound against a tiny anvil. The explosion spewed fire through a flash hole .08" in diameter, to ignite some of the powder, which started making a large amount of hot gas under pressure. As more powder burned in the confined chamber, it created more heat and gas until a pressure of perhaps 55,000 pounds per square inch developed. You were holding a hand grenade, except for the fact that the pressure drove the bullet out the bore, thus offering a safe outlet for the gas.

All this happened in thousandths of a second. Yet the components were selected by the factory, or by you as a handloader, to insure predetermined results. Clever, wasn't it? But not so clever if the primer gave punk ignition, or misfired, which sometimes happens.

Except for oil or moisture, ignition was no problem with the old 1-2-7 mix of sulphur, charcoal, and saltpeter used in black powder. A spark from a cat's whisker would ignite it. Came smokeless powder, and ignition troubles reared their ugly heads. These troubles are still present to some extent. Primers must make a lot of heat in a hurry to ignite slow burning rifle powders quickly; and with the heat they produce gas. The less gas produced by the primer the more uniform will be the velocity and pressure.

Modern primers are hotter than a firecracker. Snap an empty primed rifle case in the dark and note the loud report and flash a couple of feet beyond the muzzle. But the long flash is not necessarily an indication of perfect ignition, which may be slow, erratic, or productive of high pressure.



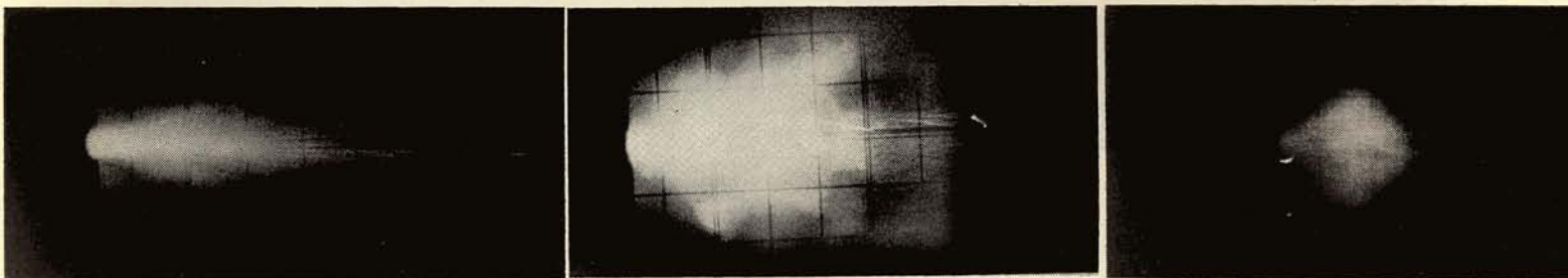
U.S. style primers have separate anvils assembled into primed cup. Popular Federal, Remington and Peters, and CCI primers have double flash anvils; Western-Winchester type at far right has triple type.

You'll never notice such faults until you shoot for groups. Slow ignition won't be noticed except by the grouping until it may be 1/10 second or more. I had one factory cartridge hang fire for almost 30 seconds.

Under-ignition is most often caused when only a part of the priming compound fires. When the powder is not fully ignited, accuracy is terrible. This sometimes is a great alibi in a match. Over-ignition is most often caused by too-sensitive primers. It's difficult to make a uniform composition of all ingredients in each primer, with the exact amount of compound needed. The result is, different lots and makes of primers exposed to high temperatures may have pressure variations as great as 20,000 pounds per square inch. One make of primer in .30-30 cartridges was stored a month at 140° F. The pressure increased an average of 10,000 psi, which wasn't considered abnormal in that make. Velocity increased 200 feet per second.

Throughout the world, most ammunition makers fabricate their own primers. Frequently they supply primers to smaller specialty loaders, either as empty primed cases or separate primers. The European-style Berdan primer is





At left, primer (not CCI) shows high explosion velocity, long fire cone against grid. Middle cap makes gas, flame, few heat particles. Right, CCI #300 gives even ignition in target pistols.

made without an anvil—this is formed in the case head. American primers are “Boxer” type, containing the anvil and usually firing through a single central flash hole. Boxer primers are made abroad for export, and are the only style made in the U. S. Strangely, Colonel Boxer was a European (British), while Colonel Berdan was an American.

American factories turn out ammunition by the millions, but shooters consume primers by the billions. So great has been the demand for good primers that new firms manufacturing and distributing, have sprung up since 1946!

A firm making more than a flash in the primer field is Cascade Cartridge, Inc., Lewiston, Idaho, headed by Richard A. Speer. After giving C.C.I. primers every test I know, which they passed with flying colors, I believe they are superior to any other make, for handloading. Our tests indicate extreme uniformity in the compound and cup dimensions, with anvils perfectly seated. A top bench-rest shooter told me primers were the major variable in such shooting, and I fully agree. Ralph Pride, the barrel maker in Portland, Oregon, used Dick Speer’s primers to set a new world record at Johnstown, N. Y., in 1955. His five, 10-shot

groups at 100 yards averaged only .343”, with one group .244”. Since then, C.C.I. primers have made many wins in rifle and handgun competition.

The cup and anvil thickness, hardness and dimensions will effect ignition and accuracy. The formula has much to do with accuracy, ignition, stability and barrel life. The old G.I. FA70 mix gave good ignition but was very corrosive. It used 25% Lead Sulfa Sulphocyanate and 17% Antimony Sulfide as fuels. The 53% Potassium Chlorate provided oxygen and was the corrosive salt. 5% T.N.T. helped control the rate of burning. A cheap non-corrosive non-mercuric (N/C-N/M) compound is Red Phosphorus 25% and Barium Nitrate 75%. The disadvantage is it has a high affinity for moisture and a short shelf life. It’s best when used within eight months.

All modern American primers use Lead Styphnate as the sensitizing ingredient, with other chemicals to liberate oxygen or fuels to supply heat. Some European primers still use Mercury Fulminate and some use Lead Styphnate with Ground Glass as a sensitizing agent. Neither type is desirable for the American handloader.

C.C.I. uses various composi- (Continued on Page 44)



CCI prexy Dick Speer contracts to make quarter million dollars in G.I. primers.



Much automatic machinery is used in making primers but girls still package by hand for final inspection check.



# Gun OF THE MONTH

By JOE W. WENGER

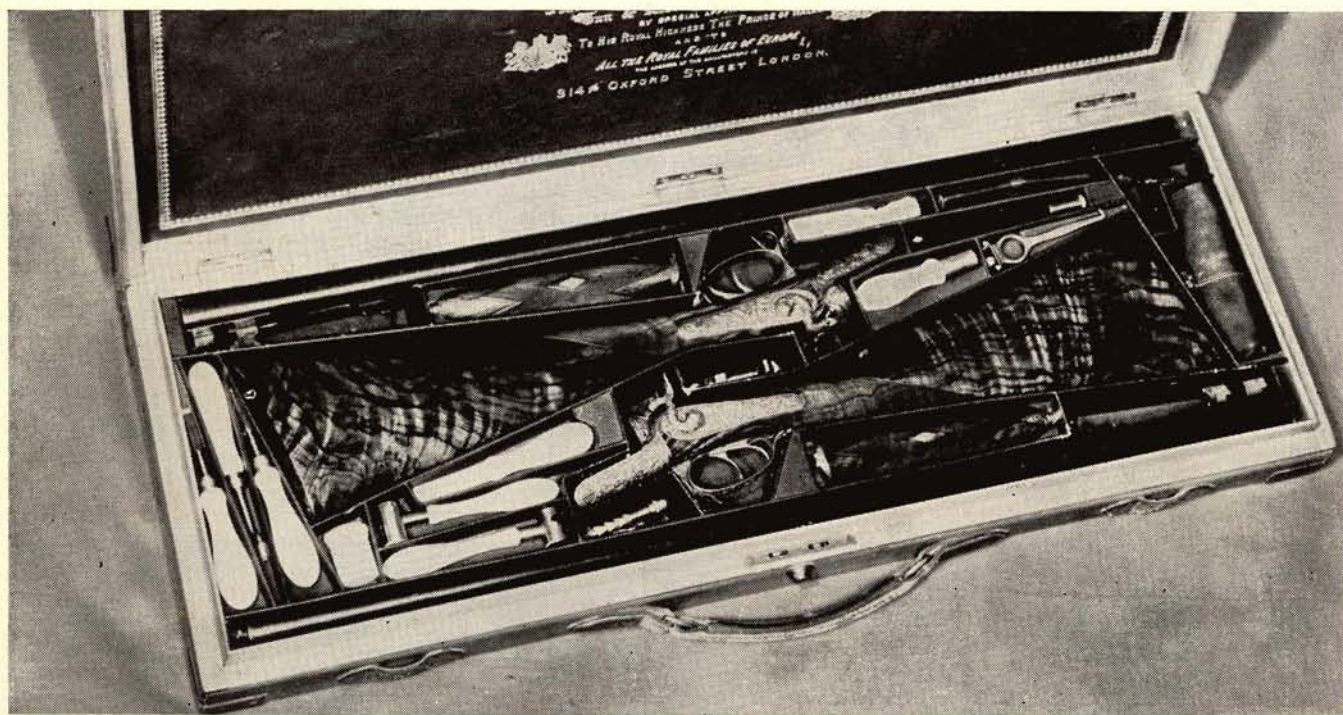


THE OLD • THE NEW • THE UNUSUAL



COLLECTOR DESCRIBES EXHIBITION

GRADE PURDEY DOUBLE SHOT GUNS AS FINEST HE HAS SEEN IN 20 YEAR SEARCH



Treasured Purdeys with loading tools are set into rare double oak-and-leather case lined in blue; arms of royal patrons Queen Victoria and Prince of Wales are stamped in lid.

THESE BRITISH 20-BORE SHOTGUNS are the finest I have ever seen—I ought to know, I've been collecting fine British guns for 20 years. The 80 year old pair is in perfect condition. Made by James Purdey of London, these guns, #10140/1, were used for exhibition purposes. Later they were bought by an English doctor. In 1947 when they were offered for sale in England, the beautiful Damascus barrels were subjected to appropriate current nitro-proof for their caliber, 20 gauge. They stood proof!

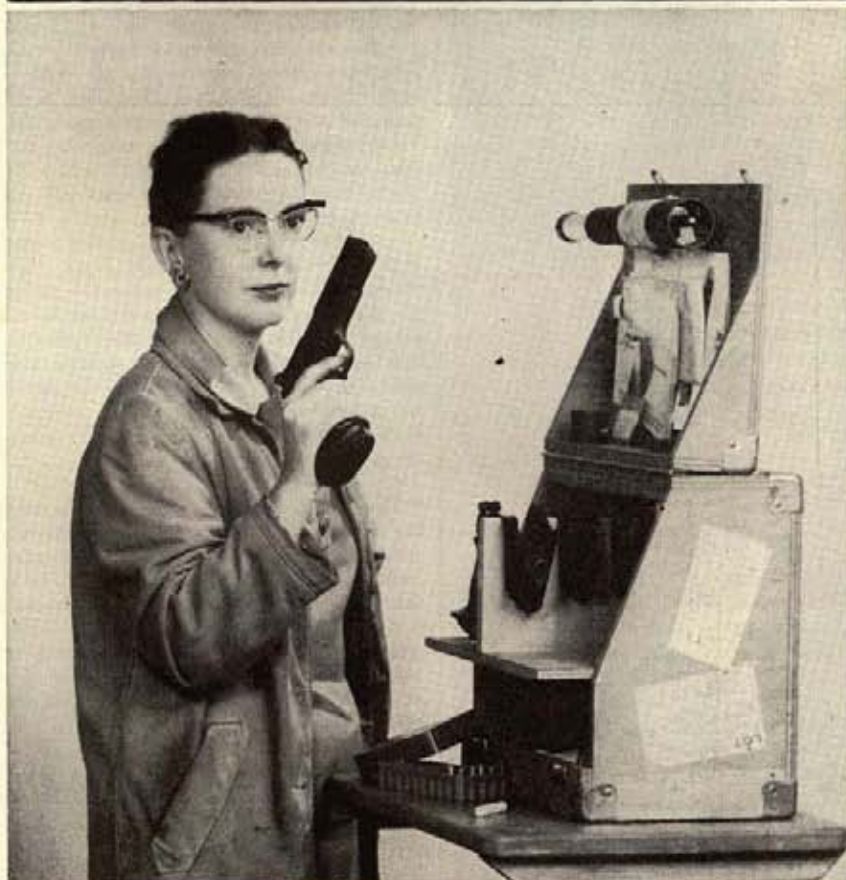
The mechanism of these two guns is interesting—they have back-action side locks (outside hammers, of course) with an under lever or falling lever opening known as the "de Brantes" action. The action, locks, lever, trigger guard, toe and heel plates on stock, fore-end tip and fore-end knuckle are all chiseled in relief floral arabesque with the background cut away and stippled. This is the most difficult kind of sculpture in steel, requiring the engraver to keep aware

of the depth of his cut as the background must be on an even "level" and he cannot easily guide himself by the level of the steel. Vines and leaves are executed in careful detail more to be expected on soft silver work than in hard steel. All the engraving has a dull silver grey-hardened color. Walnut stocks of superb vein and figure are checkered perfectly—the screw escutcheons on the fore-ends where the fore-end irons are let-in are gold lozenges or diamonds. Barrels are of a fine three-stripe Damascus pattern of delicate intricacy. The old-time gunmakers believed that the laminated iron and steel bars, twisted together, made a strong barrel. Today such tubes are definitely not uniform in strength so far as modern nitro powder loads goes. Yet these guns, tested by excess charges in the proof house in 1947, came through unscathed—a tribute to Purdey's work 80 years ago, and perhaps one reason why the firm is still a leader in gunmaking.



**"I've never had an *alibi*<sup>\*</sup>  
shooting CCI"  
says...  
Gertrude Backstrom**

**1957 National Champion**



**GERTRUDE BACKSTROM**

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- United States Women's Champion, 1955, 1956, 1957.
- National Civilian Champion, 1957.
- The only woman in the world to shoot over a 2600 grand aggregate.

Cascade Cartridge is proud and pleased that the quality of CCI primers has earned the confidence of America's foremost woman shooter . . . that Mrs. Backstrom has relied on the constant performance of CCI primers in winning her many National Championships—points directly to our aim in striving to produce the finest quality primer for American shooters today.

**\***

"I have never had a misfire with CCI primers, and I have used them for three years. In as much as I have a small hand, I have the hammers on my .38 and .45 adjusted to give me a very light hammerfall, thus requiring a very sensitive primer. Only CCI primers fire time after time without ever failing.

"My husband and son shoot, too. We all load our own and we all use CCI primers. I imagine you could say, when it comes to primers, we are a CCI FAMILY."

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Champions*



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Large and Small Pistol;  
Shotshell and Shotshell Caps.

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**NEW!**

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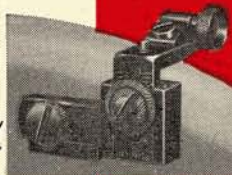
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- Streamlined base.
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- All adjustments stay secure—will not change accidentally.

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# GUNS in the NEWS

[Special]—

♦ Washington, D. C.: A book written in 1830 by Thomas Doughty could well be a guide for the ideal sportsman of today. "A true sportsman always respects the rules and seasons for shooting," wrote Doughty, "and is provided with everything necessary without borrowing from his neighbor or getting guns, dogs or horses from friends." (Question: where does one find friends who will lend guns, dogs, or horses?)

★ ★ ★

♦ Bert Stoll, of the Detroit, Michigan, "Free Press," writes that Andy Tyson, veteran trapper and guide, "wasn't stumped when he shot a big buck on an island and then found that his boat had gone adrift. Unable to swim, Andy dressed the deer, blew up the bladder for a water wing, crossed to the mainland, then returned with another boat to get his deer."

★ ★ ★

♦ Wolf Point, Mont. Mrs. Clara Holle, stalking three mountain goats into higher terrain, suddenly came upon a big rattlesnake ready for business on a ledge. Not wishing to alert the goats by shooting the snake, she used her rifle barrel to push it over the cliff. The action started a mountainside which resulted in four beautiful goats charging up the left draw. Mrs. Holle recovered in time to bag one, a dandy ram.

★ ★ ★

♦ Bellaire, Mich. Luck finally ran out for an eight-point buck near here. He was found dead with a .22 caliber bullet imbedded in fat about a quarter of an inch from his heart. To all appearances he'd been hit during the hunting season some eight months before and the bullet had just finished doing its deadly work.

★ ★ ★

♦ Moscow, Russia. It seems you're never too oldsky. A Russian news agency reported that one Abdul Mamedov of Makhachkala in North Caucasus still shouldered a gun and was an active hunter although he is 119 years old.

★ ★ ★

♦ Wheelock, Tex. Bill Fabian, an avid deer hunter, spent the whole day, from daybreak to sunset, hunting deer without any luck. He should have stayed at home. For back there, his son, Stan, had just gotten out of bed that morning when he saw some bucks loping across the field. Stan grabbed his rifle, shot through the window, brought down an eight-pointer.

★ ★ ★

♦ El Cajon, Calif. What is believed to be the most unusual pair of rifle stocks ever produced, hand-made from ebony and valued at \$5000, have just been completed by Walter Beall here. Mr. Beall is a veteran of 30 years in the stock-making business.



(Continued from page 15)

about the size of a California white tail. I used the 150 grain soft point in our .300 Weatherby Magnum. The animal was some 75 yards away. One shot and the animal naturally dropped. But as I approached within 10 feet, the animal rose and started off as though he had never been hit. Yet the insides had been shot almost entirely out of that animal. I could not understand how he ever moved. Here was an animal that could have been cleanly killed with a .22 rim fire, yet it took two shots to put him down.

When we started on safari, our white hunters were dubious about the rifles we took with us, for most of the white hunters in Africa are English and they have lived by the old tradition of the big bore double rifle all their lives. The only thing they consider is the bore of the rifle and the weight of the bullet, and when we talk of .270 and .30 caliber it scares them to death. They place some emphasis on foot pounds of muzzle energy, but know very little about the value of high velocity. They speak of high velocity in terms of the .30-06 or the .270 WCF, while I am speaking of rifles that push the 130 grain .270 caliber bullet not 3100 fps, but 3600 fps! Every time you make a clean kill at some long range with one of these "six shooters" as they call them, they tell you that it was an accident or that you are a spectacular shooter. The rifle never gets the credit.

There is a place for the big bore rifle, and that is for close brush shooting. And for the elephant, although we have killed several elephants with the 220 grain full patch in our .300 W. M., our .378 W. M. is superior, because you are after deep penetration and not disintegration. There is a lot of bone and meat that must be penetrated to get into an elephant's brain.

But other than for the elephant and possibly cape buffalo and rhino, I can see no need for any caliber above the .30 or possibly the .378, even though we will be producing a .460 magnum, giving the hunter a 500 grain bullet at 2700 fps with 8225 ft. lbs. of muzzle energy—the greatest that has ever been achieved by any shoulder weapon since the beginning of time. Our reason for this new caliber is not because of the necessity, but because of obsolete game laws in some parts of Africa requiring the use of .40 caliber or

over on specific animals, and because there are still a number of people who do not believe that a caliber such as the .378 shooting the 300 grain bullet at 3000 fps is sufficient. It is true that this new .460 has more killing power than our .378 and is a better elephant rifle, but it must also be understood that it is a heavy rifle with heavy recoil.

If velocity is not the answer to killing power, there would have been no reason for us to have left the black powder days. There is no question but that you are going to ruin some good meat with high velocity bullets. But there is also a little question about the problem of killing your animal. You know that you aren't going to have to follow a blood trail for a day or so to find him. Neither is the animal going to suffer.

And today, where is the hunter that hunts for meat only? Is it not better to lose perhaps 5 or 10 pounds of edible meat and still have 100 or so pounds left over? We hunt today for the sport of matching our wits with those of the animal; for the trophy to hang on our wall. And if we are worrying about meat and hunting only for meat, it would be far more economical to buy the whole butcher shop, for hunting is rather an expensive hobby if we figure it in terms of pounds of meat.

Speaking of heavy bullets, it is only too obvious that if one could get the 500 grain .470 caliber bullet travelling at the same velocity as the 150 grain .30 caliber bullet, it is going to do far more damage to everything and anything it hits. But this is physically and mechanically impossible today. We do not have the metals that can stand the pressure, and furthermore the foot pounds of recoil would be more than any man could stand up under. Therefore, we must content ourselves for the present with lighter weight, smaller caliber bullets at higher velocities because they give us far greater killing power than do the heavier bullets at the velocities at which they can be driven today.

During my years of study on high velocity and killing power, I have come to one definite conclusion: velocity plays the most important role in killing power. Tomorrow's rifle is going to be one with yet greater velocity. There will be changes made in rifles;



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new actions made of new alloys with new principles; new powders; new cartridge cases and new priming devices. But it will all add up to greater velocity.

And just remember one thing: a high velocity bullet that will penetrate armor plate, fell trees, and pierce 3" bullet-proof glass is not going to break up on the surface of the animal's hide—not until it goes deep into the animal's body and destroys a lot of tissue and causes terrific shock. It isn't necessary to hit the spine, heart, or brain. Most generally any good high velocity body shot will kill instantly.

From my experiences in Alaska, Canada, America, Africa, and India, and from experiences of hundreds of other people with whom I come in contact, I have come to the conclusion that we have not yet reached the velocity where we can count on 100 per cent kills at all times when animals are hit in non-vital areas. But the velocities we have now will kill approximately 90 per cent of the time.

What the same caliber bullet will do traveling 5,000 fps, only tomorrow will tell. The virtues of the heavy bullet have been instilled in the minds of man to such an extent that, when he goes out after a grizzly or an African cape buffalo, he finds himself reaching for the larger bore, the heavier bullet. But with proper training and experience, future generations will accept the inevitable and will reach for the high velocity rifle for even the largest of game.

Who knows what 10,000 fps will do? Let's keep our minds open and alert, remembering that, even in firearms, there will be phenomenal improvements in the coming years.

## THE LADY PICKS A RIFLE

(Continued from page 27)

make a positive statement. The final choice of caliber would almost always be spoken in a low voice, followed quickly by an apologetic defense of that particular gun, and a quick glance around to see who else was listening. I began to feel as though I were asking them if they were Communists!

The following is what their opinions boiled down to in order of importance. The first factor considered by the men in choosing a caliber was the amount of recoil. All the men agreed that the recoil factor is important for a beginner because flinching must be eliminated before it becomes an involuntary part of shooting.

The second most important factor considered was the distance at which the gun would be an effective killer. In most cases, deer was the most common and largest game the woman would be hunting. Killing effectiveness up to 250 yards as maximum yardage was considered sufficient.

The other reasons given to substantiate their choice of a rifle were so diversified that no one item reached third place in importance. Some men felt the type of bullet the gun would shoot was important because of flatter trajectory; the way in which the bullet mushroomed when hitting the target or on the other hand, the way in which it did not open up but did pack a killing wallop without damaging meat. Some felt the bullet weight a certain cartridge case would handle was what tipped the scale in favor of their choice.

Another reason given was the availability of ammunition. Where some guns were chosen because they were popular calibers and ammunition readily available in stores, some men chose calibers having a limited availability of bullets in factory loads from American manufacturers. They usually hastened to add that, in those instances, cartridges were available from foreign manufacturers such as Norma or RWS in a wide variety of bullets.

As bookkeeper of our gun shop, I know just how expensive custom rifles and other necessities are. It was a pleasant surprise to note the men weren't niggardly towards their wives, as the price angle didn't crop up very often. Occasionally someone would add that a certain rifle was inexpensive but the remark would be more of an off-hand observation than a point of great importance.

The rifles chosen in order of popularity and meeting the first two conditions were as follows: The .257 Roberts and the .250-300 tied for first place; in second place was the 7 mm in variations; and, in third place, the .270. Those calibers receiving honorable mention were the .243 Winchester, .300 Savage, .308 Winchester, and the .30-06. The .30-30 was also chosen once, as was the .25-20.

Scopes versus iron sights wasn't even a contest. The majority of men chose scopes ranging all the way from the 2½X to a 6X. However, the 4X won with hands down. Very

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few comments or arguments were heard concerning either scopes or iron sights, so apparently that wasn't an issue of any great importance.

In asking the original question, the word *beginner* woman shooter was stressed and usually elaborated upon. However, only two of the 47 men (one of them Bob, thank goodness) qualified their choice of rifles with statements that only after a thorough indoctrination program in the safe handling and shooting of firearms would they put a more powerful rifle than the .22 Long Rifle in the hands of any beginner, either male or female. This lack of foresight, I believe, is the reason why more women do not participate in hunting. As the men illustrated, they selected a rifle for their wives, probably with scope (I'm talking about factory rifles now, not custom built jobs) and then presented it to their wives, saying, "Here is your rifle, go get your deer." Apparently, none of them stopped to consider the gal might be gun shy due to insufficient training or knowledge. She knows the gun is a potential killer, of course, and that the trigger is what makes it go boom. But because she doesn't know much more than that, she is hesitant in taking the initiative when in the field. An inexperienced shooter may have a great deal of difficulty with a scope, be it 2½X or 4X. Even iron sights can be difficult without practice. I know that for a fact, as I've been a scope shooter for so many years that now I couldn't hit the broad side of a barn with iron sights without practice.

In my estimation, the number one consideration before a beginner shooter is ready for promotion to a caliber above the .22 Long Rifle class, is that the teacher should be certain the pupil can handle any gun confidently and safely through practice in the field. When that point is reached a deer rifle can be given some thought.

Here is how I would go about selecting a rifle for a woman beginner:

First, if the training groundwork has been adequate, the woman would know how to hold the rifle firmly to her shoulder, thereby automatically disposing of recoil as a problem. In my own case, I can shoot any rifle without difficulty if I remember to hold it firmly to my shoulder. I would next want a clear idea of the terrain to be hunted. The open, rolling country requires a greater yardage range than the dense woods. The caliber selected must have the power to kill effectively when the animal is fairly hit at the greatest distance she will shoot. Any rifle bullet will kill, if not by shock or by hitting a vital organ, eventually from peritonitis if the deer gets up and gets away after being hit, so the rifle should handle a bullet that will do a quick, clean job of killing or keeping the animal down.

Quite often the way a stock fits an individual is overlooked. Many a deer or other game shot at is missed because the shooter was not able to get his rifle mounted and aimed quickly. A too long or too short stock can also cause the recoil everyone is so eager to avoid. I don't mean the stock has to be

custom built; any factory stock can be shortened to fit comfortably or lengthened as the need may be.

When selecting the rifle I would first determine what price bracket the person can afford, having already ascertained the kind of country to be hunted. I would then recommend the best quality scope which assures the best light gathering, widest field, longest eye relief, and greatest freedom from parallax to be had for the money in the *least* magnification that will serve the purpose.

With the rifle complete and all other factors being equal—that is, a properly fitted stock, and the psychological factor of recoil-fear reduced through proper training, and with the proper scope—the overall weight of the rifle should be considered. Just as the first few shots will make or break the new shooter, so will a hunt with not a shot fired, if the lady in question lugs a rifle around all day that weighs a ton. Shoulder muscles, arms weary and sore from carrying a too heavy shooting combination for several hours or more can do more to dampen hunting zeal than any other phase of hunting, barring recoil.

I am firmly convinced that the sort of rifle best suited for a woman beginner or inexperienced shooter, either sex, can be expressed as the lightest caliber that can be depended upon to kill quickly and cleanly at normal game ranges and whose trajectory minimizes the necessity for holding over or under at most game ranges, with all other factors being equal.

I've convinced myself that the .270 meets all these criteria and it is still my answer to the game roaming these California hills, up to deer.

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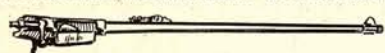
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## SHOTSHELL RELOADING FOR TRAP AND SKEET

(Continued from page 30)

loads than Red Dot.

DuPont's No. PB-6 is a special powder for target loads, and a good one. It is also available in larger containers. DuPont Bulk Smokeless is good, but rather expensive for production reloading.

There are three kinds of wads used in shotshells: (1) the over-powder wads made of a hard nitro card material; (2) the filler wads made of fiber or felts; and (3) the thin card over-shot wad. The latter is seldom used except when roll-type crimp is used in old reloaders. All wads have been in good supply at retail stores.

Over-powder wads are fairly standard in quality and come in three thicknesses: .070", .135", and .200". The particular wad combination will govern which thickness is used, and how many.

Fiber filler wads are economical, and available from many sources. Alcan now ring-waxes their wads. By waxing only the outside ring, the necessary lubrication and sealing qualities are there, but the undesirable added weight of soaked wads is not present. Soaked wads are heavier and tend to run breech pressures up for the same shot velocity obtained.

Some fiber wads seem to turn into confetti when they hit the air. When shooters are facing the wind, it will get in the eyes and cause yourself and others to miss birds. Once, when I was using reloads in low-base-wad cases and fiber filler wads, a sober old gentleman next to me inquired if that was an issue of *The New York Times* that just went out my gun barrel. I have stayed away from fiber wads, because of the confetti.

Felt filler wads are similar to fiber wads and slightly more expensive, but well worth the difference. There is no confetti. There is also one brand of lubricated felt wads available. They are much heavier and tend to increase breech pressures, but they give good shock absorption, gas seal and barrel lubrication. All filler wads are available in several thicknesses.

There are some standard recommended wad combinations for 12-gauge target loads:

(1) Western or Winchester trap tubes, load Red Dot (either 23 grains for the 3 drams x 1 1/8 oz. or 20 grains for the 2 3/4 drams x 1 1/8 oz. equivalent loads), and two .135" Nitro over-powder wads and one 3/8"

filler, either fiber or felt.

Alternatively, use one .070" and one .135" Nitro over-powder wad, plus one 1/2" filler wad, but it is faster to pick up two .135's than one .070" and one .135". This will make a difference when reloading a lot of ammunition. With the new .200" OP Nitro wad, use a 1/2" filler wad.

(2) Remington, Peters, Federal, and Canuck empties with equivalent Red Dot loads as above require two .135" Nitro over-powder wads and two 3/8" filled wads.

(3) Western or Winchester tubes loading 17 grains of Super M Balistite powder with 1 1/8 oz. shot (the 3 drams x 1 1/8 oz. equivalent load) require one .135" Nitro over-powder wad and two 3/8" filler wads, either fiber or felt. With these cases and Red Dot, one .200 OP wad and a 1/2" filler can be used.

If Super M Balistite is loaded in low-base-wad tubes such as Remington, Peters, Federal and Canuck, it is necessary to increase wadding by 1/8th to 3/16ths inch. This is approaching what may be a practical maximum for wadding, but the extra wadding seems to give no ill effects.

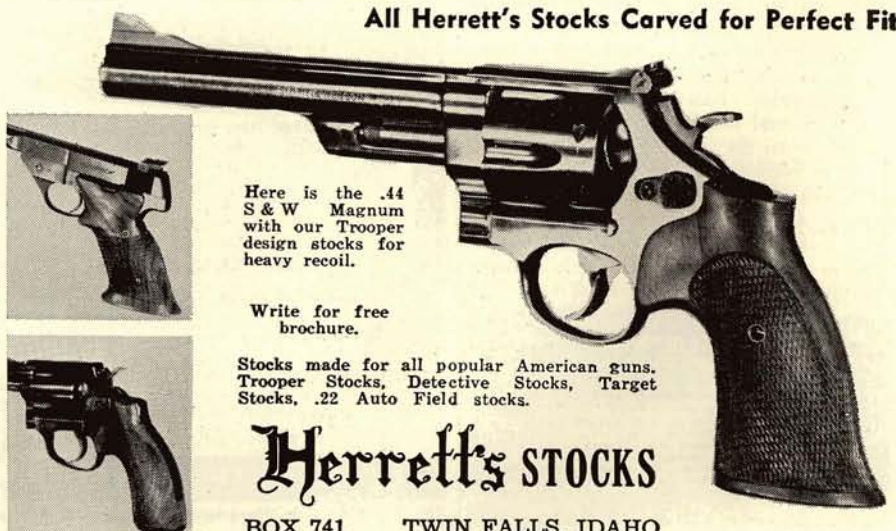
Pressure on the entire wad column will compress it, requiring added wadding; also the shock-absorbing qualities will be reduced. Only over-powder wads should be compressed: filler wads are seated snug with no pressure. Reloaders differ as to whether it hurts to put pressure on filler wads, but it is recommended that only enough pressure be placed on them to push down against the over-powder wads.

Shot is available in 5-, 25-, and 100-lb. bags, the larger the bag the better the price. No. 9 is the standard skeet size and Nos. 7 1/2 and 8, depending on the individual shooters, for trap. Large quantities usually come pre-paid. Shot takes a very low freight rate. Be sure to have shipper prepare the bill of lading correctly to enjoy the cheaper rate.

The first and most important steps in actual production of first-class reloads are to recondition and inspect the empties.

There are several good accessories for reconditioning tubes. Stag Manufacturing Company of El Monte, California, and Acme Industries of Appleton, Wisconsin, sell ironers that are heating elements. The empties the slipped over the ends, the heat melts the

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paraffin and the ends are straightened. Another handy gadget is a cleaner sold by Curt Haskins of Spokane, Washington. This is a bar with a 1/4" shank for fitting into electric drills, drillpresses, small electric motors, etc. The empty shell is placed over a rotating bar and a cloth dipped in light oil or Hoppes No. 9 is run over it. The tubes are perfectly cleaned.

One device for all-around reconditioning is the Rotary Shotshell Ironer sold by Whits, Shooting Stuff, Box 534, Cody, Wyo. For use in rotary power drills, the tool completely reconditions the empties: (1) the ends are straightened; (2) the separate layers of paper near mouth are rewelded as the ironer supplies its own heat by friction; and (3) the tubes are cleaned. This reconditioning procedure may seem unnecessary to some reloaders, especially new ones, but it is time well spent. With the rotary ironer it is possible to straighten ends, reweld and clean 800 empties per hour; or to straighten ends and reweld over 1,200 in same length of time. This amounts to very little time per shell and makes better reloads. Gritty empties will cause reloading dies to wear, and may damage the chamber.

I usually recondition hundreds of empties at a time and place them by brands in boxes with open ends up. The boxes are deep enough to hold the empties, may be stacked without damaging ends, and are easily handled for subsequent inspection.

In Winchester and Western tubes, check the overlay wad. After a few reloads this may loosen and come out. If an overlay wad comes loose and lodges in barrel, the next shoot will put a nice bulge in the barrel and ruin it. Another source of trouble is the small pieces of paper that rivet this overlay wad down. These pieces can come loose, get into the flash hole, and cause either a misfire or delayed ignition.

This top inspection is all Western and Winchester tubes require if you are using #WW209F primers. If you are loading factory primers, it is now necessary to pull out tubes previously loaded with #WW209F primers. Because the Alcan primer is .001" oversize, later using factory primers will give gas leaks, if the primers stay in at all. The primer bottom is coated with red plastic and can be detected quickly during top inspection. Save these tubes for reloading with same type primers.

If you are using the special refills, pull out tubes with Alcan's Nos. WW209F and 240 primers as they cannot be reprimed

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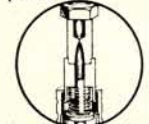
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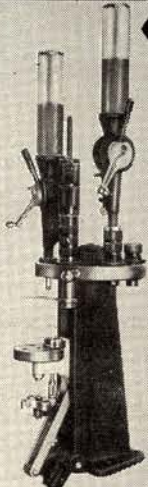
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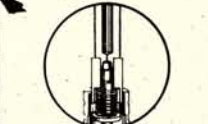


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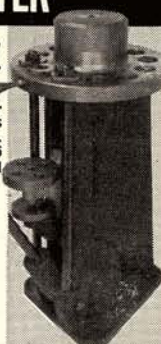
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easily. To use the special refills, the cap only is knocked out. Leave the anvil in the battery cup—it must be reseated before the new cap is seated. Cascade Cartridge now gives out free of charge an anvil reseating tool. It is handy, quick and does a perfect job. You will have misfires unless the anvil is reseated correctly.

Remington, Peters, Federal and Canuck empties do not have the overlay wad to watch for, but they have another disadvantage. After repeated reloadings, they tend to burn through at the junction of brass and paper. The brass head is ejected after firing but the paper tube remains in the barrel. This is nothing serious as the tube can easily be removed with the finger; however, shooters get very shook up when shooting doubles with a pump or automatic and this happens.

The same top inspection and primer sorting applies to these tubes. Reloading primers have silver-plated caps; factory-loaded shells have copper-colored caps.

Any of the low-basewad tubes indicating prior reloading should be given further inspection for burn holes around brass. Roll six or seven at a time in your hand. Pull out and discard those with burn holes, because they may separate on next firing.

Particular attention should be given to inspection. It eliminates the troublemakers and actually speeds up reloading. It takes very little time and can save you a lot of grief later on.

After reconditioning and inspecting, the cases are ready for priming. The correct primer for the tube used is seated snugly. Do not exert more pressure than is required to seat flush with case head. Too much pressure with some tools will cup the case head and cause misfires. Don't mix fired and fresh primers—you may end up putting in a dead primer.

The primed tubes are now ready for the powder. An accurate measure, correctly set, is required and it is a good idea to check the charge every 25 or so rounds. A few grains overload probably will not blow up your gun, but it will certainly give you a jolt and may start you flinching. In the other direction, undercharges can cause embarrassing "poofs" that drop the shot far short.

The wads are now seated, one at a time, with recommended pressure applied to overpowder wads only. Too much force can cause heavy recoil and high pressure; and not enough force will cause poor powder ignition and a low-pressure "poof."

Check your shot measure setting to obtain exact measurement for each individual size. One given setting will throw a heavier charge of No. 8 than of No. 7½, and heavier No. 9 than 8.

In registered events a shooter may be called upon to produce some of his reloads for analysis. He can be disqualified if they are found to contain too heavy a charge. It is impossible to increase shot charges to give any advantage without running breech pressures too high, so a good rule is to load only the specified 1½ oz. shot charge. There are

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492 grains in 1½ ozs. Most scales will not go that high, so weigh charges in two parts.

The tubes are next folded and crimped. Most folders are tapered-recess type, and automatically crease the old crimp because the paper gives at its weakest points. Some folders actually have the star cutters machined into them. It is best to line up the old crimp rather than make another. Poor crimps may result unless the old crimp is lined up with the folders. With this operation, the reload is complete, ready for shooting, or to be packaged and put aside for another day.

All components and a wide variety of tools are available from regular dealers stocking reloading supplies. You naturally want to save as much as possible in reloading, but buying cheap components is not the answer. Wads that confetti are no real savings. The best way to save is to buy components in large quantities. A 12-lb. keg of Red Dot will load 4,200 of the 2¾ dram 1½ equivalent loads and 3,650 of the 3 dram 1½ loads. It takes almost 75 pounds of shot for 1,000 rounds using a charge of 1½ oz. Big orders effect substantial savings and you get the best of components too.

**G**ood reloading tools, capable of production work, have a price range about \$150.00 to \$250.00. A good outfit will pay for itself in a short time. Slower but precise hand tools at less cost are also sold.

A very fine outfit is the Hollywood Turret, which can also be used for reloading rifle and pistol ammunition as well. It sells for \$213.50 complete for reloading shotshells. The wad pressure adjustment is accurate; the "speed" dies give beautiful crimps.

The Hollywood Senior tool uses the same wadseater-decapper dies and attachments but the folding and crimping dies are different. With this latter model, it is necessary to handle the shells a number of times; whereas the Turret model revolves the various dies around the shell and it is not removed until completely reloaded. The Senior model costs quite a bit less and is much slower.

The Lachmiller tool gives accurate wad pressure, but changing dies slows down the operations. It is best to have an outfit that will allow the empty to be completely reloaded without changing dies. Curt Haskins of Spokane, Washington, has designed a handy little decapper that fits right on the priming tool. The tube can be decapped and quickly reprimed with this added accessory.

The Model 200 Acme is one of the fastest on the market. It sells for approximately \$100.00. That price includes all necessary measures and a handy loading bench that makes the outfit completely portable. This portability feature makes it a desirable tool for reloaders not having an extra room or basement to set up operations. The wad pressure is indicated by a spring. The recommended pressure of 70 pounds for Red Dot powder has been exerted when the spring leaves its seat one-fourth inch. This is a simple system but seems to give uniform pressures. One measure slide throws both powder and shot charges. These slides are

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available as regular equipment for many standard loadings.

The bar number or type of load desired should be specified when ordering tools. There is a big selection of standard bars available and specials are also available. These bars are accurate and no powder scales are required, using designated powder.

An addition to the measure is recommended. A small cardboard baffle should be installed in the powder hopper. Remove hopper and place over piece of cardboard; draw outline with pencil by running around inside of hopper tube; cut out with scissors and then cut a half-inch hole in middle of this cardboard disc. Fasten this baffle about one-half inch from one end with Scotch tape and replace with baffle at bottom.

The reason for this, is that a full hopper compresses the powder in the measure bar and slight overloads are thrown. The baffle plate will even the pressure and correct charges will be measured each time.

Another handy addition to the Acme tool is a primer catcher. Take a small jar and cut a hole in lid about one-half inch in diameter. Attach lid to underside of bench where spent primers fall through and screw on jar. Spent primers are collected in the jar and don't get all over the floor. They are disposed of by unscrewing jar and emptying out.

The loading machines discussed above are only the ones with which I have had some experience. The fact they were discussed should not be construed as recommending them; nor should the omission of other equipment be considered as an insinuation of inferiority. There are many good machines on the market and the reloader should compare them all.

The most important factor in "production-plus" reloading is thorough reconditioning and a critical inspection of empties before reloading. Eliminate the troublemakers and have better empties for reloading. A few other shortcuts of your own will help you save additional time and thereby load more shells in the time you have available.

## BIG KICK—SMALL PACKAGE

(Continued from page 33)

tions with Lead Styphnate which makes the best primers, because the ingredients can be non-hygroscopic, have a very long shelf life, are non-corrosive and non-mercuric, and the flame, heat, and duration of flame can be controlled for the purpose intended. The disadvantages are, it is about ten times as costly as the FA70 mix and is much more hazardous to make. Let's take a look at a complex and costly mix C.C.I. developed especially for their excellent pistol primers. Comparatively speaking, it burns rather than explodes, and provides the right amount of heat over the right length of time to uniformly ignite every particle of powder in the case:

1—Lead Styphnate	40%
2—Barium Nitrate	25%
3—Antimony Sulfide	9%
4—Calcium Silicide	8%
5—Lead Peroxide	5%
6—T.N.T.	3%
7—Nitro Cellulose	6%
8—Tetrazine	4%

Ingredients from one to four are the source of heat and flame. Ingredients five through eight are stabilizers and control heat and flame similar to that of Tetraethyl Lead in motor fuel. Each type of C.C.I. primer has a mix best suited for the purpose, rather than varying the amount of compound in different primers. All ingredients are combustible, with no ground glass or other non-combustibles added. Our own drop tests show a high uniform sensitivity, which is necessary for a uniform velocity and pressure.

C.C.I. President Dick Speer adds some interesting facts: "In addition to other qualities, primers must yield uniform velocity, provide adequate ignition for all suitable powders without creating high pressure, have uniform operation through a wide temperature range, and have a long, stable shelf life. If the perfect primer could be made, it would ignite the powder without creating any pressure. Then bullet velocity would depend only on the powder to produce the least possible

(Continued on page 46)

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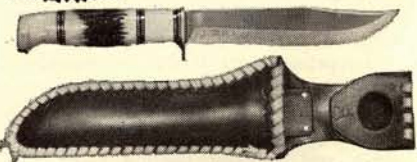


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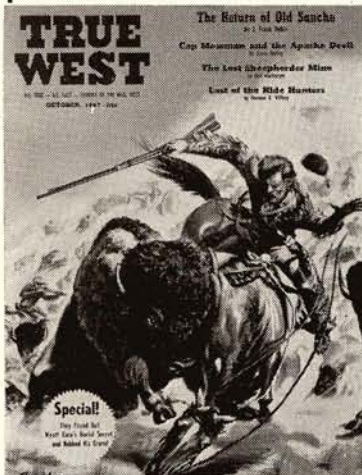
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(Continued from page 44)

variation. To achieve this condition as nearly as possible, C.C.I. has developed mixtures that could be called progressive burning as compared to an explosion. We reduce gas volume to a minimum by inducing heat to the powder in the form of flaming particles. In other words, part of the primer compound actually burns within the charge, and is not all flame and gas squirted through the flash hole. The pressure build up is uniform with C.C.I. primers.

"We have exposed our primers to artificial weather conditions of extreme humidity, cold and heat. Lab tests indicate they have a shelf life under average conditions of more than 35 years. A 30-06 hunting grade rifle has been fired more than 60,000 rounds with heavy loads and still has hunting accuracy. The test loads were 150 grain bullets ahead of 50 grains 4198. From thousands of test mixtures we have selected the ones best suited for handloading with the type of tools available. All of our primers are N/C-N/M, with no non-combustible abrasives.

"C.C.I. primers are very carefully made with high quality control. Samples are checked hourly to determine pellet weight uniformity. Every primer must pass a 200% optical inspection under a luminous magnifier. One inspection checks for defects and the other is a double inspection."

The Cascade plant is composed of seven buildings on six acres, with a fully equipped Tool & Die Shop, a Metal Parts Fabrication, Chemical & Physical Research, and other departments. Dr. Victor Jasaitis, famed munition chemistry specialist for 26 years, is director of the Chemical Division. When C.C.I. was awarded a \$288,000 government contract,

Speer was proud it required primers to be made to Cascade specifications, rather than government specifications. Uncle can do a whole lot of shooting with that many primers. The firm has filled other G.I. orders and has prospects for more. They require tremendous production, but Dick's first love is still the individual handloader.

When an ammo factory changes lot numbers of primers they adjust the charge to stay within certain limits of pressure and velocity. If you sight-in your rifle with one lot number, then hunt with another lot, or another brand, that may account for some misses. This lack of uniformity is why it's good business for those who use commercial ammo to test various makes to see which performs best in their rifle. Then it's good business to buy a supply of that particular lot number, generally stamped on the inside of the box flap. It also accounts for the fact that careful handloads are more accurate and uniform than factory fodder; otherwise the "stool" shooters could never consistently group 10 shots in less than 1/2" at 100 yards.

I do not consider handloading any more dangerous than a score of other hobbies that are considered "safe." Making primer compound is extremely hazardous, and unless you live in a place like Thailand, it is absolutely unnecessary. You can not hope to equal the inexpensive factory primers, and even skilled workers have accidents. Dick Speer said, "A heavy wooden table 6 feet long was turned into toothpicks when 4 ounces of compound detonated. It simply disintegrated. The wall was cracked and windows shattered. A person not far from the table was injured, but did survive." To sum up, just a tiny bit of priming compound makes a TNTerrific explosion.

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## NO OFF-SEASON FOR CROWS

(Continued from page 21)

.22 auto-loader. Reason for the change—I wanted to try out the Ithaca, and I like the 88-C's micro-groove rifling and accuracy and extra power so well that I wanted to use it for a while for my .22 shooting without a scope. Either rifle is fine; I like them both.

On a .218 Bee or .22 Hornet, I personally would choose a Weaver K8 scope with fixed reticle. The fixed reticle feature makes adjustments easier and more simple, and these scopes are really fine pieces of equipment. There's equal quality in other brands, of course.

The 46 grain bullets of both the .218 Bee and .22 Hornet are a good size for what is called long range crow shooting. I personally sneak in bits of really long range crow shooting with my Colt "57" scope sighted varmint rifle in .243 caliber, and there usually isn't much left of a crow after being struck by a .243 bullet. But these heavier varmint calibers are not recommended for crow shooting in most sections. For woodchucks and foxes and coyotes and the like, fine. But for as much shooting and the kind of shooting one is apt to do at crows, the ammunition expense would soon climb up to almost a prohibitive stage for most sportsmen, and shots aimed high at roosting birds travel too far. I really think a lot of my .243, but for crow shooting it usually runs into too much dough for ammunition.

The system I use for crow shooting with rifles is really very simple. I simply ease around through the fields and woods and take shots at crows perched on limbs high up in trees. A lot of the black pests will stay

put until the hunter executing a careful stalk is within .22 rifle range (50 to 70 yards); but the stalker must be dressed in dull-colored clothing and he must make a very cautious approach. It is much easier, of course, to get within the 75 to 150 yard range of the .218 Bee or the .22 Hornet.

Crow calling is not necessary while rifle hunting. The average farm country crow sitting up in a tree 100 yards or more away is not apt to pay any serious attention to the shooter until it is too late. Crows feeding on corn and other sprouting crops can often be bagged with rifles when there's little or no chance to get at them with shotguns. Maybe it's too far from the field to the nearest brush or woods calling cover, but chances are there's a ditch or road bank or something that can be used for an approach to within rifle range. This type of rifle shooting usually comes after the trees put forth their leaves, which also makes for better approach cover.

I live in average farm country in Central Tennessee. In the farm section around my home crows do plenty of damage every year to corn, peanuts, melons, tomatoes, and other crops, to say nothing of the damage they do to farm poultry and ground-nesting game birds. And there's usually always a good supply of the black rascals sticking around in my home section, despite the fact that quite a few of us in the area indulge in crow shooting regularly the year around.

Crows here in Central Tennessee usually start nesting late in March. And that is when the shotgun period of crow shooting starts with me.

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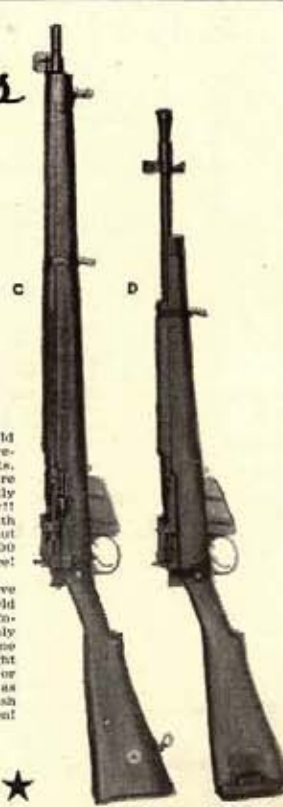
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I simply scout around through the woods with my 12 gauge auto-loader or my 12 gauge over-under, locate freshly constructed crow nests, and try my best to kill the sitting crow as she flies off the nest. Then I start, from the best concealed position available within shotgun range of the nest tree, "caw-ing" up a storm with my crow caller, using the regular crow fighting call which is a harsh "Cawrrr-rrr-rrr-rr-caw-rr-rrr-caw-rrr-rr-rrr" in as near an unbroken sequence as possible. Make the notes real harsh during the nesting season when calling from near nest trees, as this gives other crows in the area the idea that some varmint is trying to raid the nest over the protests of mama crow. I usually wait (if I can do it without the first crows that come in seeing me) until at least four or five crows are "caw-ing" over me before opening up on them in cases of this kind, and I have clobbered as many as five or six from one such shooting stand. I can usually locate four or five nests during a half day's hunt, so it adds up to some pretty nifty shotgun crow shooting.

I use basically the same system right on through until after the young crows have left the nests I have missed. You can find crow nests in practically any farm country woods lot, but crow hunters, no matter how carefully they look, do not find all of them.

After the young crows hatch and up until they leave the nest, the fighting call sounded on a crow caller from some well concealed position near the nest tree will usually bring a flock of adult crows including the parents "caw-ing" in almost blindly. I have had them dive in almost on top of me.

After young crows leave the nests and start flying awkwardly about following their parents, I still use basically the same shotgunning system, although I start using a different call—the distress call of young crows, which can best be learned by listening to the jabbering squawks of the youngsters when something disturbs them. These calls will also usually bring adult crows dashing in to the scene with feathers ruffled.

If I find a cornfield where several flocks are working on the ripening ears, I sometimes build a couple or three tall weed or cornstalk blinds near where the crows are feeding in greatest numbers. I may even place a few fiber crow decoys around on cornstalks, with one on some fence post or

similar perch to look like a sentinel. I then let out a few low "caw's" with my crow caller and wait for them to come in. Usually as many as four or more will come in together.

I usually open up on them before they have a chance to alight, as this keeps them from getting suspicious and sounding a general alarm. Once the shooting starts most of them will be in too big a rush getting away to sound very much of an alarm, and of course those bagged will not have time to sound any alarm calls. After a burst of shots from one blind it is a good idea to switch immediately to another blind near the far edge of the field. Natural foliage blinds can often be found around the edges of cornfields, saving the hunter the trouble of having to make them.

This blind shooting around and in cornfields and melon and tomato patches is an early morning and late afternoon deal, as these are the times of day when the crows will normally be feeding. During the middle of the day, if the crow shooter wants to make a day of it, I have found it profitable to hunt around the edges of woods near fields where the crows feed, or near watering places.

I simply select a good looking spot in the very edge of the woods, let out a few lazy sounding "Ca-ahrrrrt's" on my crow caller, and wait for incoming crows to pop out into the open over the edge of the woods. This is the sort of half-hearted lazy mid-day call a crow will let out when he discovers a house cat, young fox, or owl he wants to torment during the hot mid-day period. Sounded properly on a crow caller, it will usually bring results. Remember, though, near the edge of woods, and only during the middle part of the day during the hot weather months.

From early September until the leaves get off the trees, owl and crow decoy spreads set up near woods edges, just inside the woods, normally bring better results for me than any other system. I hide myself well near the decoy spreads, sound the crow rally call on my crow caller (the rally call is six short "ca-ca-ca-ca-ca" notes), and follow up the rally call with the harsh-noted fighting call. After shooting from one stand until the crows get shy, I then move to another spot at least a half or three-quarters of a mile away, set up the decoy spread again, and go to work.

Even after the leaves get off the trees I sometimes run into situations that call for shotgun shooting. In some cases, wet weather

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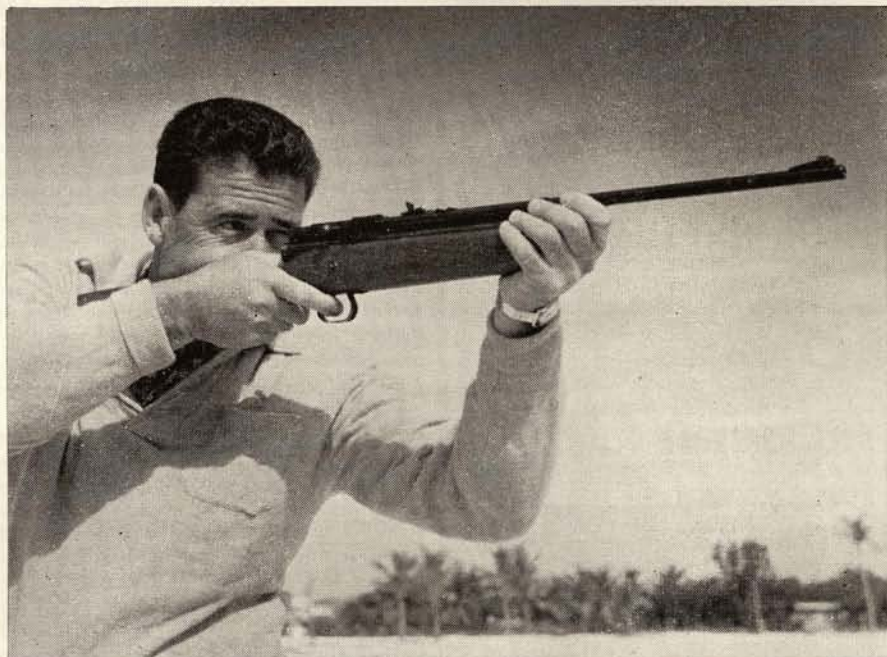
may delay harvesting corn or other crops and where such is the case crows often feed heavily on these unharvested crops right on through the winter. They will often gang up to feed in such fields.

Here the crow sentinels more often than not sound the all-clear signals to incoming crows. They also warn crows feeding in the field of approaching danger. The best thing to do in such cases is to ease around the field and keep out of sight of the crows until the peculiar "caw'ing" all-clear signal the sentinels are using is determined. Try to imitate the call as nearly as possible on the crow caller. Then kill a crow, let it stiffen, and set it up as a sentinel decoy. Do your calling and shooting from a natural cover blind near your sentinel decoy. Wait until incoming crows get within sight of the field; then, from a crouched-down-in-the-grass position, sound the all-clear signal of the sentinel. Have the stiffened dead crow sentinel decoy placed up in some bush not far from the shooting stand, and be sure to wear dark colored clothing.

Personally, as far as crow shooting shotguns are concerned, I am a 12 gauge booster and nothing else. I alternate between my Marlin Model 90-ST over-under and my Winchester Model 50 "Lightweight." The Winchester auto-loader doubles as a quail gun, so it has a 26 inch improved cylinder barrel. And believe this or not, for shooting during the spring and early summer when I am apt to get mostly close range shots, I use up the bobwhite loads I had left over from the previous bobwhite season. These are usually medium field loads, 3¼ drams of powder and 1½ ounces of No. 8 shot. With them and the Winchester 50, I knock crows as cold as cucumbers while I am shooting most of them at the closer ranges. I have also used this combination successfully in my feeding-field winter-time crow shooting.

For the longer range shotgun shooting, especially during the fall season, I use my 12 gauge over-under which has 28 inch full choke and modified barrels. And here I usually use high velocity loads carrying No. 7½ shot. I used to argue for No. 5 and No. 6 shot for crows, but years of actual experience have finally convinced me that, in most cases, the smaller size shot are actually better and more effective on the black pests.

Winter or summer, with shotgun or rifle, crow shooting is fun. Why don't you try it?



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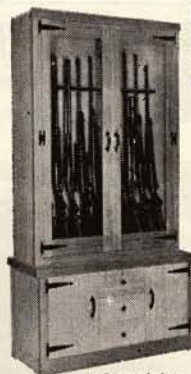
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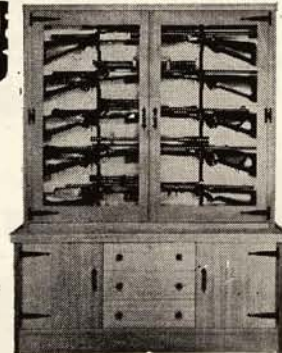
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## THE MIRACLE OF WAIDMANNSEIL

(Continued from page 25)

available to the Clubs, on second look this might have been an expression of Army policy—don't let it appear that the Rod & Gun Clubs are operating on any other basis than friendship and a common enthusiasm for one sport: then let nature take its course. The course taken has been favorable to American-German friendship, and to better relations between the U. S. Forces in Europe and the people with whom America's soldiers abroad must live and work. The German hunting tradition has a lot to do with this.

**T**radition is important to the G.I. hunter in Germany—the Club sees to that. First, there is no "free hunting." Areas where game live are carefully surveyed and managed by state-employed jaegers, who are combination game wardens and hunting guides. Their responsibility is the care of the game crop and its harvesting. Both care and harvesting—hunting—is surrounded by formality, some mysterious, some logical. Most of it is in the form of law. Karl Grund, aide to Colonel Layton and Capt. Pletzer, writing in the Association's monthly news bulletin Rod and Gun, keeps hunters informed of these facts. For example, referring to hunting in June, Grund explains the value of binoculars in spotting roe buck. "From now until the mating season which runs approximately from the middle of July to mid-August, only the undesirable bucks should be bagged. . . . Under no circumstances may you shoot a young buck whose horns have not yet reached the peak of development."

Grund explains that all sick and underdeveloped bucks, as well as those with abnormal sets of horns from injury or defective heredity, may be taken. Selective shooting is necessary to prevent the inferior bucks from mating, thereby insuring a good stock in the future. "It is not considered sportsmanlike to bag the good trophy buck before the mating season," declares Grund.

The actual hunt may be a scene of ritual, with ceremonial blowing of horns. When the game is bled, a sprig of evergreen is placed in its mouth as a final gesture. Into such a tradition-regulated sport—so traditional it is almost a sacred profession—American G.I. hunters have been welcomed as equals and, now, as partners. Careful education by the Clubs has done it. Each wouldbe hunter must take lessons in German conservation and hunting procedures, must pass written tests before he receives his hunting license.

"These tests are no snap," Leyton assured me, "but if men fail them, we just work on their sense of pride, their determination to do the job. They study, read up on what they have missed, talk to other Club hunters and to the local jaegers, and try again. It works. We have no 'hunting accidents' to speak of, and we have developed a group of men who have a strong respect for the ways of hunting of the people we are living with, the Germans." So important is the German hunting tradition to the German people, that their acceptance of the American G.I. into it has given them a remarkable opportunity to be friends with a military force that defeated theirs in the field. With all eyes turned toward the Arctic for possible future combat action, the fact that Germany will be the first land battleground if somebody pulls the switch is not ignored by the U. S. Forces in Europe. The Rod & Gun Clubs have made it possible for our Army and the new German Army to work together in friendship.

While punching away at the battered German desk typewriter in the hotel, I was offered a chance to see this respect in action. Two men in civvies perched themselves on the desk, asked: "Edwards, how'd you like to attend our shoot this Sunday? We took over this club recently and the membership has jumped from 70 members to 700. . . ." I took up their offer and, several days later, drove up to Nurnberg, where Captain Tarter, USA, met me at their skeet field.

It was situated in a huge military depot back from the road, with two skeet towers and a couple of booths for "clubhouses," to shelter the Cokes and clay birds. About 15 American personnel, officers, EM's, and NCO's, were making the rounds. With them was a French civilian and a German. Some of the G.I.'s were good, but none excellent. Tarter explained that this shoot was one where they discouraged the experts from firing, to give less skilled shooters a chance. Tarter, though a club officer, was no hot shot at the birds himself, but the table full of silver plates and cut glass disappeared as the afternoon wore on. The shoot, though small, was a keystone to their success: anybody can play and win is the rule rather than the exception. I know—I won! With 36 x 100 (using three different strange guns) I came in "Class B Runner up!" Though an absolute dub, I still got my name in print! Somewhere on the high seas that jellybowl

(Continued on page 52)

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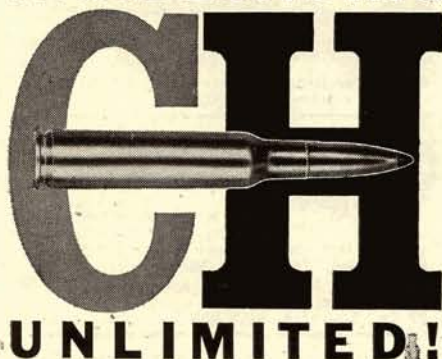
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(Continued from page 50)  
and nut dish is floating its way over to me.  
That afternoon, depressed at being so out-  
standingly the low man on the totem pole,  
I left before the prizes were handed out. The  
next day Tarter phoned me I had a "trophy"  
coming. If my own upswing in spirits was  
shared by other shooters there who received  
the same treatment, there is no secret to  
that club's boom from 70 to 700 members!

Room for every shooting and hunting in-  
terest seems to be a foundation of the Rod &  
Gun Club program. Lieut. Jamie Taylor of  
the same club flew me to Heidelberg. As we  
prepared to take off, he called out to a  
friend: "Tell those guys that I'll be back in  
time for the pistol shooting." After a Sunday  
of skeet, Taylor was going to a pistol shoot  
later on, and would take on some smallbore  
rifle competition. Just a typical weekend in  
the life of a G.I. Gun Club member abroad!

My stay was limited—I could not go hunt-  
ing. For years I have wanted to take an auer-  
hahn, the wily Tyrolean mountain bird so  
elusive after centuries of being hunted that  
he seems to have an instinctive awareness  
of danger. These big, grouse-like birds are  
strictly protected, are shot on lots. Around  
Berchtesgaden, there were only four reported  
available. Hunters wanting to try their luck  
did just that, by drawing straws. The four  
lucky men got their permits. But through Col.  
Layton, Austrian gunmaker Helmut Dschul-  
nigg tendered me an invitation to go to Salz-  
burg and try for one there. Bagging such a  
trophy is worth going to Europe, but 30,000  
Rod & Gun Club members have the oppor-  
tunity as a matter of course—if they're lucky.  
I had to turn down Dschulnigg's offer.

The auerhahn is one of the main trophies  
taken by G.I. hunters, but not the only one.

Chamois, almost a classic game animal to  
U. S. shooters, is often hunted. But lately  
the chamois were in danger of extinction  
from mange. With domestic livestock, the  
disease could be easily controlled by shut-  
tling the goats into a pen and inoculating  
them. But how do you inoculate a crag-hop-  
ping nanny that refuses to get closer than  
300 meters, and across a chasm at that? The  
Rod & Gun Clubs came up with the answer  
just the month before my visit. They import-  
ed a special dart gun shooting a drugged  
projectile. The outfit, made by Palmer Chem-  
ical Corp. in Atlanta, Georgia, was developed  
to aid in capturing wild game for study or  
medication. A dart-shaped syringe is filled  
with a paralyzing chemical. The power of  
the gun makes it effective up to 40 yards,  
and the "shot" animal usually passes out  
quickly. The knock-out may last up to 25  
minutes, during which time the animal may  
be examined, treated, or penned up. Such a  
device is useful not only in treating wild  
game but in corralling it to be shipped from  
a surplus population area to a less populated  
game preserve. The ballistic limitation of  
the dart gun poses a problem in stalking  
chamois to within shooting distance. But  
snowfalls last March had forced some of the  
herds down into the valleys and made the  
game biologists' task easier. The gift of this  
game-getter has had a profound effect on the  
German hunters and has created more good  
will for Americans.

Hunting, trap and skeet, and handgun and  
rifle competitions are major activities of  
the Rod & Gun Clubs. But the G.I. gun  
fancier is not limited to these alone. A week-  
end pass will take him to his choice of the  
finest arms museums in the world. Some of  
the servicemen enjoy visiting the gun stores



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and factories near their bases. Others do their own stock work, refinishing or refitting sporterized military rifles, making new stocks, or having new stocks or complete rifles made to their specifications. In addition to the familiar American guns of which, according to Colonel Layton, there are not enough to satisfy the demand, there are many European guns, strange, exotic, and not always cheap. I learned at the Convention exhibits that the Stateside notions that European handmade guns were dirt cheap was strongly in error. Back in 1948 when the Rod & Gun Club interest was just forming, such leading old firms as Johann Springer's Erben, Vienna, offered special work on converting military rifles for Allied personnel. Prices were surprisingly low, as little as \$18 for completely engraving a Mauser receiver. But today the same work would cost you \$50 or more; engraving such as Albin Obiltschnig puts on Ferlach guns owned by G.I.'s costs as much as \$200 for complete coverage of action and trigger guard for a double barrel "bockdoppelpfinte." The price is naturally less than similar work in the U. S., but it is no longer cheap.

"We have one problem with our shooters," Colonel Layton told me. "We are trying to educate them not to buy junk." As any gun collector knows, this is a difficult problem, but with 200 clubs chalking up an average annual business of \$100,000 each, with some clubs like the big one at Rhein-Main doing \$30,000 a month in guns and fishing gear, this matter of buying junk could break the bank. Fortunately, club buying officers have many advantages in selecting merchandise. The quality examples of the world's finest guncraftsmen are virtually at their elbows in the great arms museums, while today's

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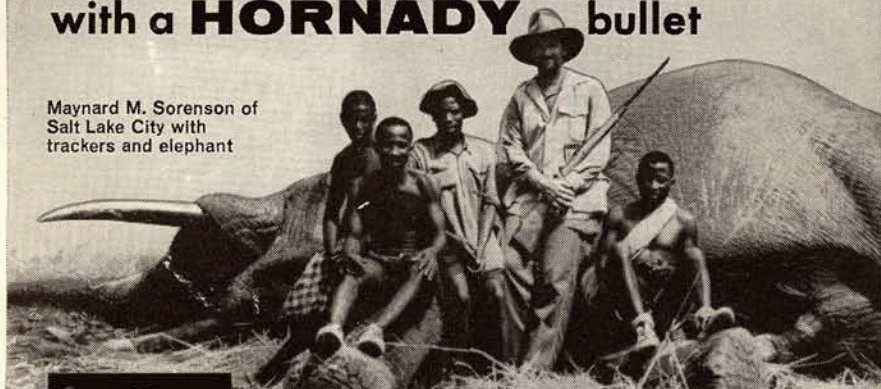
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custom gunmakers such as Richard Marholdt of Innsbruck, or the smiths at Waffen-Franconia in Wurzburg, turn out first class work. Dschulnigg, himself a skilled gunmaker, has combined American styling and traditional European lines in many of his rifles for Rod & Gun Club buyers, symbolic of the fraternity which has sprung up between the American sportsman abroad and the German hunter.

Ranging the Bavarian hills together, Americans and Germans are developing a third benefit, one far removed at first glance from the world of fun with guns. This third value is a military one. It is like the military value of the American backwoodsman who, called on to defend the country he knew, rallied to the colors and beat back an invader. He did it not with the Long Rifle alone, but with a combination of woodcraft, knowledge of the country, ability to live off the land, that made him an unbeatable guerilla fighter. Today, in the same Tyrolean hills from which the German gunmakers emigrated long ago to build the Long Rifle in Pennsylvania, a new crop of American Frontiersmen is learning woodcraft. Their guides are their brothers, the German Jaegers. Rotating home every three years are 30,000 American soldiers who have learned the ways and byways of Hesse, Rheinland-Pfalz, Bavaria, and the other German länder. They know the land, know it well enough to fight there if need be.

And if fight they must, the Rod & Gun Clubs have made sure that the Germans are on our side. This has not come about without work, but cold calculation is not the only thing which has built this unusual recreational and defense pattern in West Germany. Colonel Layton received his share of credit from his German and American friends at the Convention banquet. I learned later why he was successful. With simple sincerity he said, as we stood talking on the terrace under the same moon which had looked down on Hitler and his generals, "I will leave a bit of my heart here."

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## THE MAN TO BEAT IN MOSCOW

(Continued from page 19)

surrounding the recoil spring. Hammer and hammerless models were made. Finally a pattern seemed perfect, and the tests proved successful. The commission of experts recommended the manufacture of the first consignment of this new sport automatic pistol. This was on June 21, 1941. . . . On the following day, sport pistols were forgotten, as the first of Hitler's bombs dropped on the USSR's cities.

During the war Margolin worked as an ordnance engineer. He developed many new ideas in design and manufacturing. His special knowledge of many types of arms was valuable and he took part in repairing trophy weapons. When the war was over, Margolin turned again to peaceful .22 pistols. And to the astonishment of his superiors, he scrapped the very design which had been recommended for mass production before the war. Within 18 months he had perfected an entirely new weapon which brought victory to the Soviet sportsmen at Caracas!

The new pistol had an important "first" in .22 target automatic pistol design, a non-moving rear sight. Models made in 1946-47 have a rear sight bridge on the frame, through which the slide passes. The perfected pistol first hit the firing line at the USSR Shooting Championships in 1949. A 10-shot clip magazine blowback arm, the pistol had a new style of rifling, and the chamber was cut for .22 short case length as fouling difficulty had been experienced before in shooting the short cases in the long rifle chambers. The experience of the rifle clubs has shown that Margolin's pistol may be used for years. It will take more than 100,000 shots without losing its accuracy and unfailing action. The designer has equipped it with a muzzle brake and an adjustable thumb hole grip for any hand.

From 1949 to 1954 the Russian team practiced. Then at Caracas, Venezuela, Kalinichenko eclipsed Benner's rapid fire International record and "Margolin's pistol" chalked

up a team record. The title of world champion, dozens of gold medals, the Venezuela and Helsinki Prizes and the Lyons Cup were brought back to the USSR. But Margolin was not satisfied. Ahead lay an even greater challenge, the Olympics in Australia in 1956. He was preparing a surprise for the shooting world, the upside-down pistol.

He keeps up with competitive design ideas. "The Americans, Norwegians and Germans have excellent gunmakers of their own," he says. "And of course they are always working on new ideas for sporting firearms. It takes some stepping to keep up with them." But in his new pistol, Margolin said: "I have made new calculations for the sight, changed the adjustable stock drastically and made the handle incline more convenient. There will be a new breech system and muzzle brake."

The working drawings for the new pistol were prepared by Margolin through the help of his assistant, Kim Otomanenko, a young engineer. Their team work is rather interesting. Margolin dictates the drawings, using the models of mobile, fairly complex sections of gun machinery which he prepares himself. He makes them of cardboard, wood, metal, and some items are modeled of clay or wax. The designer and draughtsman have found a common, understandable visual language.

The pistol which emerged was radically different from any firearm ever before designed in the world. Called the MTsZ-1, the five-shot competition .22 is built with the slide and barrel below the hand, the magazine feeding inverted from above. This caused the "kick" of the gun to strike downward, aiding rapid fire control as at the briefly-appearing targets of international silhouette shooting. The barrel lies level with the middle finger of the hand holding the pistol. The firing and functioning is regular blowback but the extraction and ejection of the fired case is positive even though gravity alone might accomplish this. The back sight

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This is the type of holster used in the "Old West" but made with added safety features and so constructed the gun handle has ample clearance from the side of the belt, thus the thumb on the hammer and the fingers gripping the handle cannot touch the belt, minimizing accidental discharge. The Bohlin "snap away" safety hammer strap is securely fastened into holster and has a spring added which holds gun "down", but when released it snaps downward holding the safety strap where it does not interfere with "drawing." The holster is shaped in a natural curve allowing the cylinder to turn freely before or while drawing, but if preferred a wide non-collapsible steel spring is inserted between the lining to hold a permanent free space around the cylinder. Belt and holster is made of the finest quality saddle leather and workmanship. Pioneers in designing and making holsters—OUR WORKMANSHIP AND QUALITY ARE UNCONDITIONALLY GUARANTEED.

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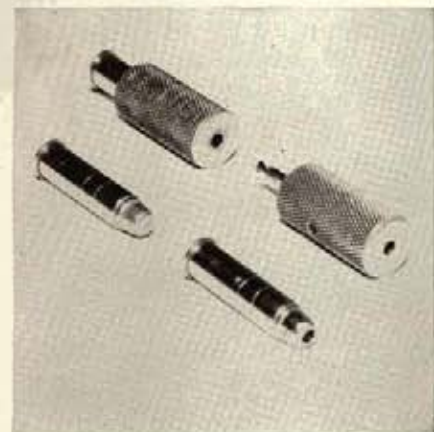
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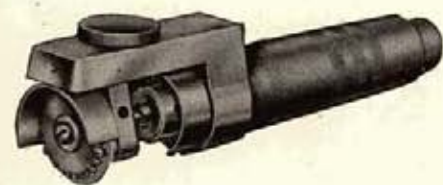
# SHOPPING



**GOERG HOLLOW POINTER** is designed for calibers .38 Special, .357 Magnum, .44 Special, .44 Magnum, and .45 Colt revolver. Used on loaded cartridges only. Can be used by anyone without the added expense of loading tools. Priced at \$4.95. Tool was developed by Alfred J. Goerg to permit the hunter to develop hunting bullets for the type of animal he is hunting. Any size depth cavity may be drilled to control the expansion of the bullet. Product is manufactured by Goerg Enterprises, 3009 So. Laurel St., Port Angeles, Wash.



**HUNTERS' HOIST**, with its own lock, is small and light weight, yet powerful and compact when in use. Designed to take care of a multitude of lifting jobs, yet small enough to carry in a hunting coat pocket, Hunters' Hoist gives the hunter or camper the very much needed helping hand. Its comparatively small overall size is shown in this photo of the hoist next to a K&N Revolver. Hunters' Hoist weighs only 12 ounces, yet is designed to carry a load capacity of 750 lbs. This quality product sells for \$7.95, through Hunter Mfg. Co., Box 376, Pratt, Kansas. A postal card will bring full information.



**CHECK-ALL** is the power tool attachment that checks a gunstock without tedious hand-filing. Cuts grooves perfectly uniform in depth and spacing; can be pre-adjusted for standard, French, or skip checkering. Fits flexible shaft handpiece (specify size). \$32.50 ppd. Available from Check-All Co., Manchester 2, Mass.

**NEW SHOT SHELL LOADER.** The M E C Speeder 300 loading tool manufactured by the Mayville Engineering Co., 22 So. Main St. Mayville, Wis., is a new piece of hand loader's equipment. The Resizing Ring in this new loader produces shells of uniform high quality and each machine is unconditionally guaranteed to resize any American shell to fit any American gun using the M E C Resizing Ring method. The M E C has also introduced the "Flip Type" Measure which enables the hand loader to process a variety of shells because of the ease and safety with which shot, powder and charging bar may be changed. The base of the tool is formed from heavy plate steel. The M E C Electric Shell Former is fitted with a bracket by which it can be conveniently mounted to bench or loader base. Several new features are found in the M E C Cap Tools which are available in 12, 16, 20, and 28 gauge. A 6-page Instruction and Parts Manual covering the operations of the tool in complete detail is furnished with each unit.



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**NEW S-330 RECEIVER PEEP** is a high-quality, precision-made sight especially designed for accurate target shooting. It's standard equipment on two new Mossberg 22 caliber rifle models, 340B and 346B. In addition, Mossberg rifle models 320K, 340K and 346K have their receivers drilled and tapped to take the new No. S-330 receiver sight. It's available at \$5.00 retail—and usual discounts to the trade apply. The new peep sight has positive, quarter-minute click adjustments for windage and elevation and is said to be free of backlash. Windage and elevation bracket is removable. Simply turn a coin-slotted screw and lift out. When returned, it takes the exact same position as before removal. Contact your dealer, or write O. F. Mossberg & Sons, Inc., Dept. G9, New Haven 5, Conn., for full information including name of dealer nearest you.



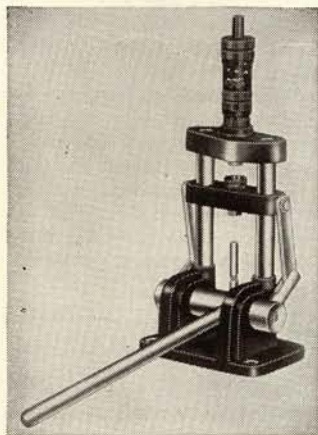
A **CALENDAR CHRONOGRAPH** watch, useful to the hunter, has been introduced by The Wakmann Watch Co., Inc., of New York City. The watch features an all-steel case, 17 jewel movement, and deluxe hands and dial with raised silver figures for easy reading. Designated as model 785CC it combines the beauty of a dress watch and the precision of a most accurate stopwatch. It keeps track of day, date and month, and it has three registers: 60 second, 30 minute, and 12 hour; plus "incabloc" shock protection. This model is also available with gold filled top, steel back case; and with an all solid gold case. Stop sweep second hand makes watch invaluable for timed and rapid fire target practice.



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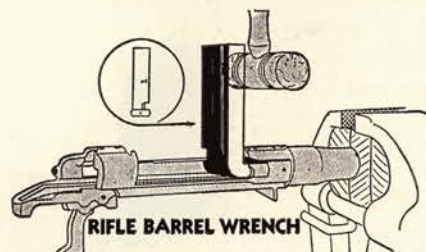


**SCHISSEL 600** is a powerful, smooth-functioning press that incorporates every feature demanded by professional hand loaders. A three in one tool, the basic press will meet all your reloading requirements, whether it's reloading shotshells, full length sizing all rifle cases, forming the various wildcat cases, or loading for pistol. All metal parts used in the manufacture of this press are made from ground and polished accuracy stock, and all castings are a close grained, stress relieved grey iron. All machining operations are held to a maximum tolerance of .0015". The model 600 press with a primer assembly and insert sells for \$26.95, press complete for rifle, including dies \$38.90, press complete with Val-Scott dies for shotshells \$59.95. Rifle and pistol dies \$8.95 a set. Catalog available upon request. Schissel Die & Mfg. Co., Box 655, Cherokee, Iowa.

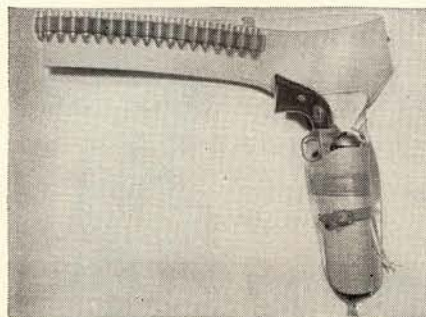
**TWINWELD COLD SOLDER** is a new preparation which assures permanently bonded applications and repairs without welding and without soldering. Hunters, and all sportsmen, are sure to find a use for this new TwinWeld product which provides a new type of plastic adhesive with tremendous gripping power. When spread between two surfaces, the plastic reaction that occurs (caused by heat) alters its make-up and links the bonding surfaces into a permanent bond. Such a bond may actually be stronger than the two pieces of metal or dissimilar material being bonded. TwinWeld is a product of Schramm Fiberglass Products, 3010 West Montrose Ave., Chicago 10, Ill.



**THIS NEW RIFLE BARREL WRENCH** is the easiest, fastest, surest way you have ever seen to remove or install a rifle barrel. Just two wrenches fit all of the popular rifle actions. Slip the correct wrench into the receiver; use a piece of one-inch pipe as a

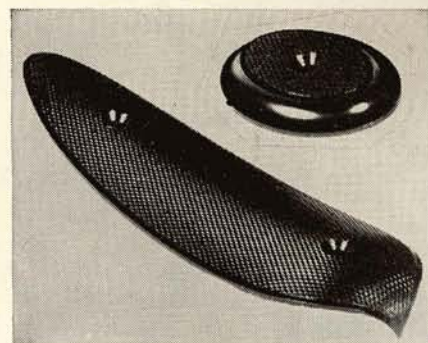


handle or hit the wrench with a mallet and off goes the tightest barrel. Made of heat treated chrome vanadium steel, wrench sells for \$7.50; complete set is priced at \$13.75. Manufactured by Maynard P. Buehler, 17 Orinda Highway, Orinda, Calif.



**FAST DRAW HOLSTER.** Gun Slinger expert Ray Howser has put his fine hand to the design of a new rig as handsome and secure as it is easy to draw—at popular price. The new Pony Express Fast Draw Buscadero Rig features a leather-covered metal band around body of holster which allows gun to slide in or out, action free. Similar band up back of

holster belt tongue allows holster to be bent either away from, or close to the hip, as desired. Comfortable contour belt with 30 cartridge loops. Each rig is custom made, so when ordering state wrist and hip measurement, make of gun, barrel length, and caliber. Delivery approximately two weeks. Further information and prices available from: Pony Express Sport Shop, 17460 Ventura Blvd., Encino 30, Calif.



**NIEDNER BUTT PLATE AND GRIP CAP** are new items of Riley's Supply Co., Avilla, Indiana. The Niedner Butt Plate is made of checkered steel, and, according to the supply source, is the finest sporter Butt Plate made. Over 10,000 customers have been satisfied in the last two years. The Butt Plate produces sharp, clean-cut checkering . . . size 1-9/16" x 5 1/8". Each \$2.50.

The Niedner Grip Cap of blued steel is checkered to match the Niedner Butt Plate and is of the same quality . . . long accepted by the shooting fraternity. Each \$2.50.



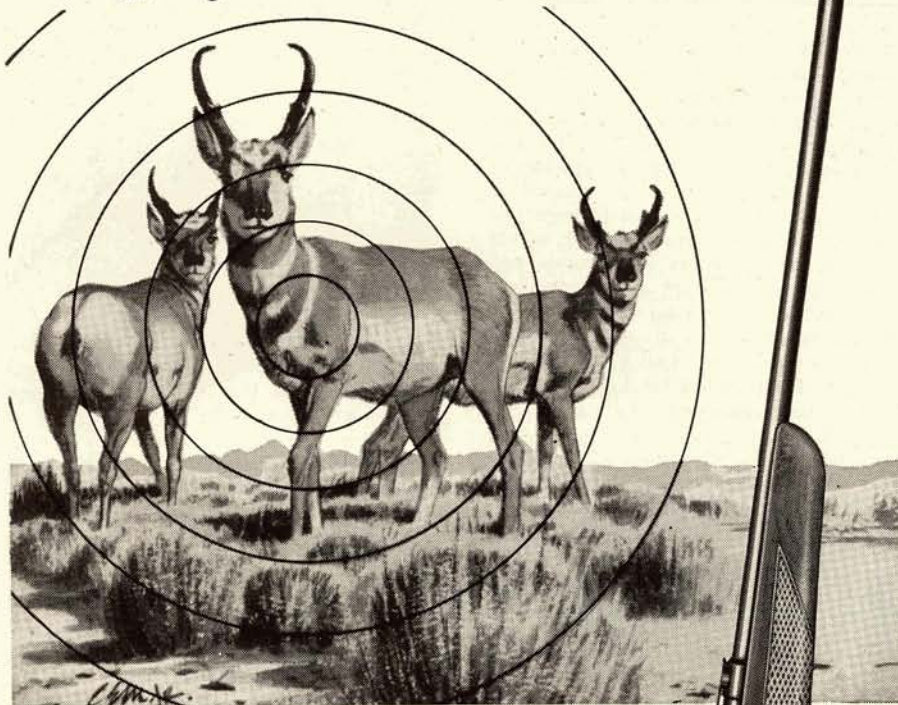
**NEW PLAINSMAN PISTOL** uses inexpensive BB's and powerful CO<sub>2</sub> (carbon dioxide) chargers, and shoots as fast as you can pull the trigger. The pistol is built on .22 Target pistol lines, rugged metal alloy in blue-black finish. Standard full sized pistol weight and balance. Practically silent, pistol assures positive safety with a 6-inch special steel lined barrel. Another feature is the 3-power settings, "Low," "Medium," and "High" for different shooting ranges. This is a simple, trouble free, quick loading gun that makes a perfect vacation companion. Contact manufacturer George Numrich, West Hurley, New York, for further information.

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# picture of a trophy-to-be



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# Savage 99 F

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has micrometer adjustable knobs, and both rear sight and front sight are replaceable. The trigger mechanism has regulating knobs for pull and weight. The handle is of a special shape to conform to the hand, and the newest models weigh between 2.75 pounds to 3.3 pounds.

The first models had a fairly short barrel and only one strut from barrel to sighting line; later models used several different types of muzzle brakes and the perfected pistol has a long barrel with two struts holding the sight-line bar above the hand. The slide still has a cross bar for disassembly as in the earlier Margolin pistols. An elaborately inlaid and engraved example of this triumph of gunmaking was exhibited in 1957 at a trade fair in Oklahoma in the United States. But it first met the eyes of other shooters, this pistol from the man who cannot see, at Melbourne in the Olympics.

Evgenii Tcherkassov fired a Margolin pistol, as did Sorokine. Neither took top honors but the Olympic committee was excited. So unconventional a design! As a result, the Soviet scores with the Margolin pistol were approved at Melbourne, but for future shoots it was agreed that the rapid fire pistol must fit into a box 30 centimeters long, 15 centimeters high and 10 centimeters deep. Margolin's creation would not go into this Procrustean regulation and it has been banned for competition.

But Margolin was not disheartened. Perhaps anticipating the action of the committee at the Olympics, he had begun to plan for the future, to think out a new pistol for international competition. Certainly the man who, as an air raid warden on duty on the roof of one of Moscow's big buildings, actually threw an incendiary bomb from the roof to the street where it burned harmlessly, and in the ruins of a lodging house demolished by bombs lead 120 old people, women and children to safety, does not lack for courage in the face of a little set-back. Banning his upside-down pistol has done only one thing to Margolin—inspired him to develop new designs in sport automatic pistols. These will represent him on the firing lines at the International shooting competition in Moscow, will represent the target pistol designer who has never entered a match with one of his own guns, has never even seen them.

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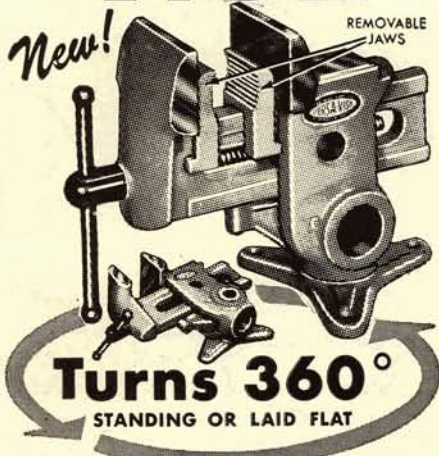
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## ELMER KEITH SAYS

(Continued from page 8)

releasing its lock on the cylinder. It can then  
be swung out to the left. The action is very  
similar to the Sentinel. Frame is flat topped  
with a rear sight that can be driven to right  
or left to correct laterally.

The arm we tested shoots much too high  
and, like the early Ruger Single Sixes, badly  
needs a higher front sight. Also like the  
Ruger Single Six, the rear sight is positioned  
at least half an inch farther forward than it  
should have been. The front sight blade is  
wide and well shaped, but should be higher  
so the shooter could, if necessary, file it  
down to exact point of aim at any desired  
range. The rear sight would be better if it  
were click-adjustable for windage, but if this  
gun were fitted with a slightly higher front  
sight it would well answer the needs of the  
hunter and plinker.

Grips are of a plastic material closely re-  
sembling fine ivory, with the gold High  
Standard medallion. Frame and straps are of  
aluminum alloy, and barrel, cylinder, lock  
work, ejector rod, etc., are of fine steel. The  
case hardened hammer has a firing pin in-  
tegral with the hammer, and each chamber is  
cut out at rear for the firing pin, so the arm  
may be snapped without damaging a chamber  
rim. It is a double action arm but the double  
action pull is rather hard and trigger comes  
back a bit too close to guard for some folks.  
While I had no trouble, some complain of its  
pinching the finger. I found it did very well  
for several shots quickly at close range.

When cocked, the trigger comes back to  
the rear of the guard and, although there is  
some creep at start of pull, the latter stage

is very clean and easy. The little arm is  
surprisingly accurate and we did good work  
on small rocks out to 150 yards with no  
difficulty. Both Frank Pachmayr and I shot  
it at this range, having no trouble hitting  
rocks the size of a jack rabbit off hand once  
we found how to compensate for its low  
front sight and high shooting.

Here is a gun that is going to sell and  
one that will give all the low priced field a  
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tinel, should be left to the experts at the  
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semble. We believe a fine target model of this  
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wide Bisley-type hammer spur, a wider trig-  
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(Continued on page 63)

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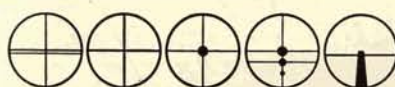
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(Continued from page 60)

Angeles, California is now offering an improved version of his long famous swing mount. The new version is a top mount, and the aluminum alloy base mounts on bridge and receiver by screw attachment. Most modern guns are already tapped for scope mounts on both bridge and receiver, and the new swing mount takes advantage of this feature and also eliminates objectionable stock cuts as with the older swing mount. The new mount can be adjusted simply and quickly to center the scope with the cross wire or post in the center of the field. When properly centered, a set screw locks each unit in position. This takes care of the odd rifle whose receiver may be crooked or whose barrel may not shank up exactly in line with receiver or whose barrel may be slightly bent.

The New Pachmayr top swing mount has an excellent and sturdy latch in firing position, may be swung upward out of the way for use of iron sights, and permits the scope to be mounted in almost any desired position as regards the ocular lens, which is a great boon to many shooters. No gunsmithing or stock work is required; by loosening a set screw and turning a screw, the scope can be lined up by bore sighting, and the adjustments will take care of fine adjustment for any desired range.

The new mount is sturdy, practical, and easily installed. I used a Pachmayr swing mount on a .285 O.K.H. Mauser for many years and it never let me down. I consider the new top version of this fine mount a great improvement. The connecting elements are lapped to very close tolerances and have the size and strength to take the load. The

scope has been removed and replaced between shots for a one-inch 100 yard ten-shot group, proving that the scope can be removed and replaced without changing the sighting of the rifle.

Frank Pachmayr has sold his big machine shop and is again doing gun work exclusively. Pachmayr originated the .45 auto accuracy jobs and still turns out some of the most accurate .45 target autos. Pachmayr Gun Works can also furnish the very finest in custom gun engraving, that compares very favorably with that of Kornbrath or any of the old country masters. Fine scroll, flowers, game scenes, or any desired design can be executed in flat scroll base relief or gold and silver base relief inlay or fine filigree.

### Lyman Patterns and New Choke

Shotgun shooters have known for a long time a particular gun will give better patterns with one load than with others. Lyman Gunsight Corporation carried out tests more extensive than any average shooter could afford, to learn as much as possible about the effects on pattern of every possible combination of barrel, choke, shot size, powder load, and wad and crimp combinations. These tests were made during the development of the new Lymanchoke, a popular-priced adjustable-choke accessory designed to supplement the Cutts Compensator.

Vice-president and General Manager Charles Lyman says, "One of the most surprising things we learned is that certain loads on sale today will not produce an acceptable pattern when shot in plain barrels of the finest American shotguns made! The reason for this," he said, "is that certain

(Continued on page 65)

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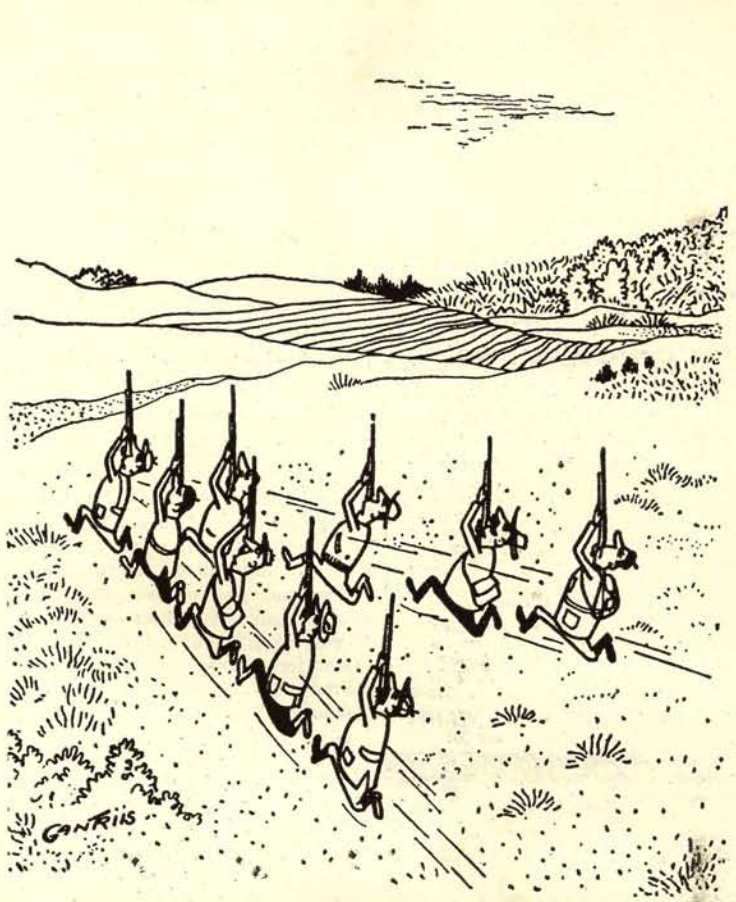
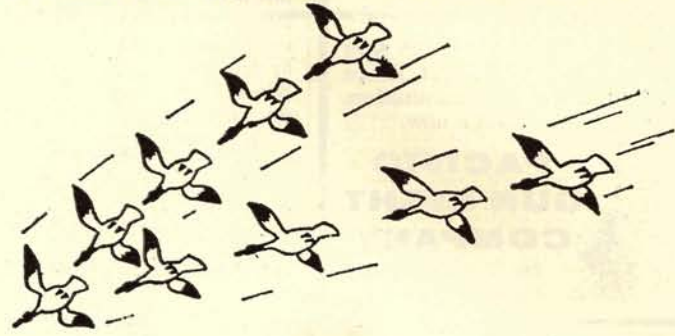
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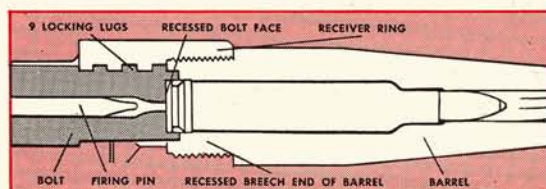
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