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TEST REPORT

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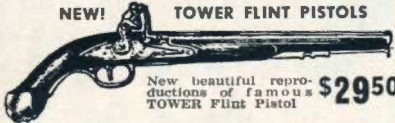


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KNOW YOUR LAWMAKERS

Congressman Fred B. Rooney 15th District, Penna.



I first had an opportunity to oppose so-called "anti-gun legislation" as a member of the Pennsylvania State Senate. I said, then, and I say, now, that no government, local, State or Federal, should deprive an American citizen of the right to bear arms.

Although momentary hysteria and unreasoning fear may seem to point the way toward outright controls as the sole means of preventing disaster, cooler heads and calmer reflection should lead the Congress—as it did the Pennsylvania Senate—to reconsider and decide the case on the basis of merit rather than emotionalism.

Governor John W. King New Hampshire

The militia mentioned in the second amendment was indeed a far cry from the militia of today, for it was comprised of citizens with weapons close at hand ready to defend themselves, their community, state and nation. The need for armed citizens to defend our nation today is very remote, but history proves it could be possible. This important part of the heritage of our nation which was given birth by the man with a gun should never be denied our citizens. It would indeed be difficult to misinterpret this part of our constitution which clearly states that the rights of our citizens to keep and bear arms shall not be infringed. Any firearms legislation enacted should be aimed at those who abuse this right.

Congressman Andrew Jacobs, Jr. 11th District, Indiana

As in the case of all rights, the Constitutional right to keep and bear arms is subject to reasonable regulation by orderly governmental process. I believe the right of a householder to maintain a firearm within his home, for the protection of that home, is too basic to be disturbed by legislation. There are other areas where I would jealously protect the right to bear arms. For example, the right to go hunting and target shooting is inviolable and the acquisition and use of firearms for this purpose should be subject only to reasonable safety regulation.



Congressman Glenn R. Davis 9th District, Wisconsin

Our continued existence as a Republic depends upon adherence to our Constitution and the amendments thereto. People who seek either to ignore or circumvent our written Constitution, no matter what the reason, are thereby weakening the framework of our free Government. Our Founding Fathers inserted the Second Amendment to the Constitution upon the basis of hard-earned experience. No temporary situation or wave of emotion should be permitted to close our eyes to the clear words and intent of a Constitutional provision.



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Guns

FINEST IN THE FIREARMS FIELD

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Ass't to the Publisher



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THE COVER

The Webley & Scott name on a shot-gun has always meant traditional British quality. Although they do not make a "best" quality sidelock gun, their boxlock shotguns are certainly of the "best" quality. With a stepped up program of distribution in the U.S., through Service Armament Co., we will no doubt be seeing more Webley & Scott shotguns in American game fields. Photo courtesy Webley & Scott Ltd.



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GUN RACK



By R. A. STEINDLER

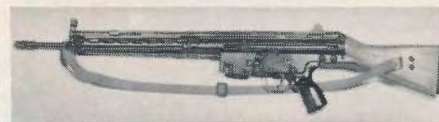
Cetme Sport Rifle

These 7.62 Nato (.308 Win.) semi-automatic rifles are now sold by Centennial Arms Corp., 3318 West Devon Ave., Chicago 45, Ill., and they are made in Spain. Strongly resembling several military arms, the Cetme Sport rifle is a very well made, smoothly working firearm. Weighing just an ounce over 9 pounds, the rifle comes with a five-shot magazine, but a 20 round clip or magazine is available for \$7. Also available is a gun that is basically the same as that pictured, but instead of a metal fore-arm, the fore-end is made of wood and is finished with a varnish or lacquer-type material. The sights are set for meters rather than yards, and the rotating rear sight is capable of permitting the shooter to obtain a good sight picture. In my tests, I did find that the 100 meter sight—which is an open V while other ranges are of the peep type—was accidentally moved several times, but this could have been due to manipulation rather than a mechanical failure.

Each rifle comes with a bipod that is fastened to the barrel, a web sling, and a small cleaning kit that is contained within a small tube just above on the barrel. Field stripping is extremely simple, and workmanship of the gun is exceptionally good. In contrast to most semi-automatic arms, the importers suggest that the bolt be permitted to slam home so that complete forward travel and locking of the bolt is assured. In firing for accuracy and function, I burned up over 100 rounds of domestic factory, U.S. military, and Austrian 7.62 Nato ammo, and there was no case of malfunction. The trigger arrangement—the gun has the customary two-stage military pull—is simple and consists of but seven parts, yet the entire trigger assembly works smoothly and flawlessly and is mechanically on a par with most of the semi-auto sporting arms that I have examined.

Current production models of the Cetme Sport rifle have integral scope mounts that use readily available rings. The test gun, an earlier production model, lacked this feature, and testing was done with the factory peep sight set for 200 meters (about 218 yards) since I found it somewhat difficult to see the target clearly with the 100 meter V sight. The firing was done from a solid shooting bench at a 100 yards target with ten shots timed so that proper alignment of the sight with the bull could be accom-

plished. Accuracy of the gun with military ammo and Remington as well as Winchester factory sporting ammo was most gratifying, with 10 shot groups averaging about 5.5 inches. Had a scope been fastened on a current production model, it appears certain



that the Cetme rifle would have been capable of better accuracy than I was able to obtain with factory iron sights. Incidentally, the ATU has given the Cetme a clean bill of health, and conversion to full auto is not possible. Because of the heavily fluted chamber, reloading the fired brass is not recommended.

S&W Model 60

The S&W Chiefs Special is now available in a stainless steel version which is designated as the Model 60. Stainless steel resists all corrosion, salt, moisture, and all of the other conditions that raise the devil with a blued gun, especially a handgun. The Model 60 weighs 19 ounces, has a 2 inch barrel, and an over-all length of 6 1/2 inches. I put one of the first models of this gun through



its paces on my indoor range, and was delighted to find that the finish of the stainless steel does not offer as much glare as I had expected. Some stainless steel, when polished, appears to be as light reflective as a chrome plated object, and it has long been my contention that chrome plated guns, especially police revolvers, could possibly cause trouble because of their ability to reflect even a minimum of available light. The S&W M60

passed all of its tests with flying colors, and S&W's Bill Gunn tells me that the company is now making trade shipments of this model.

Car Gun Holder

More than one fine gun has been ruined by carelessness when the hunter or shooter leaned the gun against the side of the car and then either knocked it over himself or had his partner or a hunting dog bump the gun. The Third-Arm gun holder, from Western Holder Co., Box 33G, Menomonee Falls, Wisc., 53051, is just the thing for you to carry in your car or hunting wagon. Made of plastic and a couple of powerful magnets, it attaches to any smooth metal surface. I found the Third-Arm gun holder not only easy to use, but it holds guns safely and securely, no matter what barrel size or length your gun has.

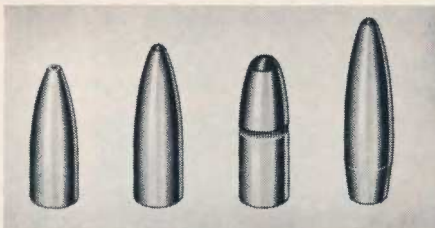
Fajen Sycamore Stock

During the early part of last winter, Reinhart Fajen, the stockmaker of Warsaw, Mo., contacted me. Reinhart wanted to know if I was available for some stock testing, and if so, would I send him a magnum caliber rifle that I was shooting a great deal? The next day I shipped him my M70 in .300 Winchester Magnum and after only a few weeks, my rifle arrived with his new Regent stock. The stock wood is Sycamore, a very tough yet lightweight wood that is some-

what lighter in color than wild cherry wood. Reinhart had tested the wood on a number of rifles, but never on a magnum caliber rifle, and the question was "how tough was the wood and would it split under the constant pounding of the recoil?" After firing some 350 rounds of close-to-max. loads, I took the stock off the rifle and went over it carefully. There were no signs of wood splitting or other recoil effects, and it seems that Sycamore is going to become one of the new stock woods. Properly kiln dried, this is a stable wood, and Reinhart has an ample supply of blanks on hand. Incidentally, for \$1.00, you can now get his big new catalog.

Hi-Precision Bullets

Recently, while working with a M70 in .338 Winchester, I located some bullets in a local shop that bore the label of the Hi-Precision Co., Orange City, Iowa. I contacted D.M. Juriaans who heads this company and very promptly got my shipment of .338 bullets. Their 265 grain bullet gave

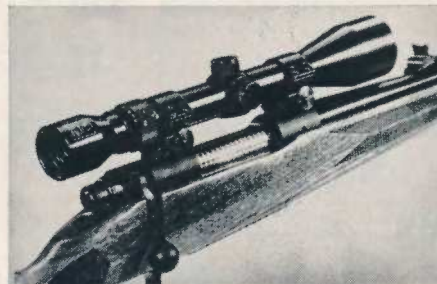


exceptionally good accuracy in a number of tests, and my expansion tests showed that the bullet expanded in a most satisfactory

fashion in moist sand. The 200 gr. RN bullets performed equally as well in the M70 I was using, and I intend to try a number of other bullets from this company in the very near future. The company makes bullets from .22 caliber on up to .45 caliber; pictured are all of the available bullet styles.

Pacific News

And there is lots of it. Let's start with the long-heralded Pacific scopes. These are made in Japan, come in the following powers: 2.5X, 4X, 6X, and 3X-9X Variable. We received a 2½X Deluxe scope, but without mounts which are available from Pacific



or Pacific dealers. The scope passed all of our tests very well, definition and light gathering power were equal to that of another 2½X scope that we use on one of our hunting rifles. The scope finish, however, scratches fairly easily and did show signs of wear after the scoped rifle had been moved in and out of the saddle scabbard about 20 times. Price range of the new scope is

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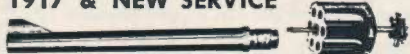
689 G BERGEN BLVD.
RIDGEFIELD, NEW JERSEY

Dealers Inquiries Invited

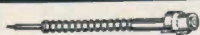
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— 38 Special—OMM Luger
26" long — 6 groove rifling — 1 turn in 16 inches \$ 9.50 + 80¢ pst.
12" long — 6 groove rifling — 1 turn in 16 inches \$ 5.95 + 40¢ pst.
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— 38 Special—OMM Luger
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22 CALIBER—27" long—6 groove rifling—1 turn in 14 inches \$ 9.50 + 80¢ pst.
45 CAL. ACP—20" long—6 groove rifling—1 turn in 22 inches \$10.95 + 80¢ pst.
45 CAL. ACP—12" long—6 groove rifling—1 turn in 22 inches \$ 6.95 + 40¢ pst.
45/70 CAL.—12" long—8 groove rifling—1 turn in 22 inches \$10.60 + 95¢ pst.
ROUND BARRELS 1-3/16" OUTSIDE DIAMETER
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257 CALIBER — 24 1/4" long — 6 groove rifling—1 turn in 10 ins. \$12.50 + 80¢ pst.
264 MAGNUM — 24 1/2" long — 6 groove rifling—1 turn in 9 ins. \$12.50 + 80¢ pst.
270 CALIBER — 24 1/2" long — 6 groove rifling—1 turn in 10 ins. \$12.50 + 80¢ pst.
7MM MAGNUM — 24 1/2" long — 6 groove rifling—1 turn in 10 ins. \$12.50 + 80¢ pst.
308 CALIBER — 24 1/2" long — 6 groove rifling—1 turn in 10 ins. \$12.50 + 80¢ pst.
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36 cal. 32" long gain twist .. \$23.35 + 85¢ pst.
40 cal. 32" long uniform twist .. \$15.85 + 85¢ pst.
40 cal. 32" long gain twist .. \$23.35 + 85¢ pst.
45 cal. 42" long uniform twist .. \$27.45 + 1.50 pst.
45 cal. 42" long gain twist .. \$27.45 + 1.50 pst.
uniform twist \$ 6.75 + 50¢ pst.
45 cal. 38" long complete w/Breech .36 or .45 cal. 10 3/4" long plug \$ 9.95 + 50¢ pst.
ROUND BARRELS 1 1/4" DIAMETER
45 cal. 32" long uniform twist .. \$10.95 + 95¢ pst.
45 cal. 32" long gain twist .. \$18.45 + 95¢ pst.
45 cal. 48" long uniform twist .. \$18.95 + 1.50 pst.
45 cal. 48" long gain twist .. \$26.45 + 1.50 pst.
OCTAGON BARRELS 1 1/4" ACROSS FLATS
45 cal. 32" long uniform twist .. \$17.85 + 1.90 pst.
45 cal. 32" long gain twist .. \$25.35 + 1.90 pst.
45 cal. 42" long uniform twist .. \$22.85 + 1.90 pst.
45 cal. 42" long gain twist .. \$30.35 + 1.90 pst.
TAPERED ROUND BARRELS 1 1/4" TO .710 DIAM.
45 cal. 32 1/4" long uniform twist \$13.50 + 85¢ pst.
45 cal. 32 1/4" long gain twist .. \$21.00 + 85¢ pst.

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Beautiful Blue-Black finish \$2.75 ea.

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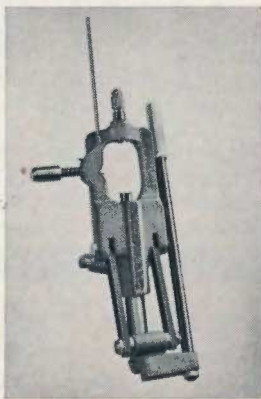


204 BROADWAY
WEST HURLEY 6, NEW YORK

from \$29.50 to \$49.95. There was no fogging, and according to Pacific, the scopes are nitrogen filled to prevent fogging. Available are the standard crosshairs, crosshair with post, and crosshair with dot. Clicks of the adjustment screws for windage and elevation are quite audible, and each click equals 1/4" at 100 yards.

Bob Deitemeyer, the guiding light of Pacific Gun Sight Co., also improved the Pacific pistol powder measure and tells me that they finally have caught up with the orders for their triggershoes. Another new feature, at least in this size, is the Pacific Tool Package. Two variations of the package are available, both of them contain everything a beginning handloader needs to start loading quality ammo for either rifle or pistol. The standard package retails for \$49.95, the Deluxe package for \$79.50 and contains the Deluxe Pacific tool rather than the standard tool. Both packages can be considered "good buys" for the novice loader.

The new Deluxe pro tool is quite a handful, is designed for the most rugged jobs that any press might be called upon to perform. The automatic primer feed is located on the left side of the tool and functions easily and smoothly. The spent primer is



ejected through the back of the ram into a primer catcher which, to my mind, is a worthwhile addition to any tool. The MA (mechanical advantage) of the tool is tremendous and case forming is easy with very little work being required by the reloader. If you use the automatic primer feed, do not pull the cotterpin that holds the primers before the primer tube is seated in the tool frame. However, the cotterpin must be moved out so that its open end is flush with the tube before it can be seated in the slot in the tool's frame. The screw underneath the primer arm must be removed before the primer arm can be moved to the left so that it indexes with the primer feed tube. The shellholder-to-die space has been increased from 3 3/8" to 3 1/4" inches to make it possible for the handloader to seat the longer bullets in the long magnum cases. All in all, the new Pacific pro Tool is a fine tool designed for the handloader who is interested in turning out quality ammo with a minimum of work or trouble. The stripped tool retails for \$35.00, the complete tool with dies in the caliber of your choice, primer flipper, and lube sells for \$55.95.

Also new and improved is the DL 120 shotshell loader. This is still a five station tool with an in-line operation, but the new DL 120 comes so that you can load paper

as well as plastic hulls. A simple crimp starter die for \$2.60 is available for either 6 or 8 segment closures, and the change-over is accomplished without trouble or fuss. As in most other shotshell loaders, varying charge bars and bushings are available, and the DL 120 can be converted from one gauge to the other without too much trouble. Suitable dies for all gauges are available for \$18.00.

With but 15 minutes practice, it was an easy task to load almost six boxes of shells in an hour, providing all of the needed items are on hand and laid out for easy manipulation. The powder and shot measure delivers accurate charges consistently as confirmed by the Ohaus scale where 25 shot and powder charges were checked. All in all, the DL 120 is a reliable, well-built loader that produces good reloads with a minimum of trouble or effort. The complete tool retails for \$39.95, plus the crimp starter die and other charge bars or bushings.

Lacquer-Stick

Lacquer-Stick, available in several colors, is one of the handiest means known to me to fill-in marks or stampings on guns for photography or to bring out the worn markings on sights and scope adjustments. Made by Lake Chemical Co., Dept. G, 250 N. Washenaw Ave., Chicago, Ill., 60612, the Lacquer-Stick is resistant to most solvents and it is easy to use. Simply rub the stick over the marking you want to bring out, wipe the surface with a cloth, and the markings are now clearly visible.

Bullet Swaging Dies

I am the owner of a .318 caliber rifle and getting bullets for the caliber is a considerable problem. While .323 bullets are plentiful, those miking .318 are limited. J. Hall Sharon, Box 1066, Kalispell, Montana, makes swaging dies that will make it possible to swage, for instance, .323 bullet down to .318. The dies can be used either in a heavy duty loading press, but they can also be used in a bench vise. Write to Hall, telling him what you need. He made me up a set of dies for under ten bucks, and they work fine. By the way, Sharon is the fellow who succeeded John Buhmiller in the barrel business.

Alaska Hunts

Just had word from Chris and Bert Klineburger, two of the three brothers who run Jonas Bros. of Seattle, the world-famous taxidermy shop, that once again both of them got record heads in Alaska during the 1965 hunting season. This makes some six or seven B&C records that the brothers took in the last three or four years. Their outfitter is Eldon Brandt, Mile 123 Glenn Highway, Palmer, Alaska. Eldon offers fall and spring hunts, either for one species only or a package hunt for several game animals. His success ratio and repeat hunter bookings are extremely high, indicating that he knows where the game is and can put his hunters within range. Write to Eldon for catalog and booking dates.





CROSSFIRE

Wrong-way Winchester

I have been a subscriber to your fine magazine for about ten years now, and have almost every copy on file back to 1955. The quality has remained remarkably good over the years, although I seem to notice that in the last three or four years, articles for collectors have been limited to either short descriptions or detailed discussions of very isolated items like the Whitney revolver in November's issue.

Speaking of November, your cover story on Utah mountain lions is very exciting. Your "lucky rifle champ" is lucky indeed—lucky to be alive, that is. The picture on page 32 shows him directly under a tree containing a 140 pound, 7½ foot cougar; attempting to shoot it out of there with an uncocked rifle. I sure wouldn't want to be in his shoes if the shot didn't kill the cat and it dropped out of the tree into his lap.

Also, I imagine a lot of Winchester collectors will be after the rifle in the picture. Judging from photos on page 32 and the front cover, it's one of those ultra rare '94's with the saddle ring on both sides . . .

Seems to me you could be a little more careful to put your pictures in the book the right way around.

Russell Wood
Dorset, Ontario

I am embarrassed for you at the photo on page 32 November where the hunter is aiming at the cat with the hammer of the gun down! And at fifteen feet!—And a top rifleman shooting any .30 caliber gun is not likely to have his thumb on his cheek very many times after he has pulled the trigger.

This detracts from the reliability of your magazine.

M. C. Chapman
Evanston, Ill.

The cover shot was reversed specifically for the purpose of fitting GUNS' highly specialized organization requirements for a front cover. As for the picture on page 32—it's indicated in the story that some shots were posed for the purpose of illustration.—Editor.

Self-Defense Calibers

How well you express my ideas about magnum calibers in your Sept. article! They are for the birds so far as I am concerned. In younger days I used the good old .45 Colt Peacemaker, then got down to the .38 Special. When older and I needed a gun for protection about the house, I bought a S&W .22 Kit Gun with 2" barrel, loaded it with

Super X high speed soft point ammo. When I asked S&W if I had not better use the whole six shots of this small caliber on an intruder, they replied that just one properly placed shot would be enough for anyone.

I also read with great interest the article by Joe Rosa on the question of who was the first with bored through cylinder, etc. His article awhile ago on Colt's London factory was also informative.

R. Horace Grigg
Philadelphia

.38 Snubby

The special article, "Testing a New .38 Snubby," in the November issue, is excellent. It was very well written and the photography was tops!

Bill Henry
Charter Arms Corp.
Bridgeport, Conn.

The Student Speaks

As a student at Michigan State University, I am constantly in contact with young people who speak quite strongly about the encroachment on our rights and privileges by a growing Government Bureaucracy, and I only wish there were some way to bridge the gap between them and the guns "fraternity." The majority, ironically enough, are not at all in sympathy with our cause. This is why I strongly support the drive of the Shooters Club of America to improve our public image. Such action is our only real hope, and it is fortunate that we have organizations such as yours to amplify the unified voices of those who love guns.

Thomas S. Sawyer
Michigan State University
East Lansing, Mich.

Police State

I quote the following from the Indianapolis Star of last Oct. 19:

"... Dr. Earl L. Moore ... yesterday was charged with making a false application for a license under the Federal Firearms Act.

"David W. Mernitz, Assistant United States Attorney, said the dentist stated on his application that he would be a wholesale and retail dealer in firearms . . .

"Actually Dr. Moore is not in such business, but only collects firearms as a hobby," Mernitz said.

"He will be summoned to appear in

(Continued on page 11)

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.442"



338 CAL. 225 GR. S.P.

80 grs 4350 Vel. 2859 fps
Rifle: 340 Weatherby Magnum

.340"



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News from the...

SHOOTERS CLUB OF AMERICA

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Administration experts are studying the extensive firearms hearing record compiled by Senator Dodd's Subcommittee. According to information received from the National Shooting Sports Foundation, spokesmen for the Subcommittee now refuse to comment on new rumors concerning Presidential assurances of support for Federal anti-gun legislation. Previously, these same spokesmen had been publicly confident of Administration backing.

The most recent public reports of Presidential support for Dodd's proposed legislation were started by a "New York Journal-American" exclusive, a partial text of which follows:

"Washington, Nov. 18—President Johnson will ask Congress to pass a strong firearms bill in its next session, it was learned from official sources here today.

"Mr. Johnson has also given the word to the Justice Department to come up with other measures to fight crime in the streets. The firearms bill is seen as a major complement to his anti-crime package in 1966.

"In the past session, Sen. Thomas Dodd (D.-Conn.) introduced a strong Administration bill to control gun sales, but it did not get the enthusiastic presidential treatment that anti-poverty, voting rights, and Educational measures got.

"Now, it was learned, the White House has assured Sen. Dodd of steady and strong presidential support for a powerful measure. The Dodd bill is bitterly opposed by the National Rifle Assn. and other gun clubs and pressure groups.

"It would restrict mail-order, foreign surplus and heavy weapons sales, sales to juveniles and sales to out-of-state residents. The bill would also raise license fees.

"The possibility that Mr. Johnson would seek an even stronger bill was not ruled out."

According to this release, the "man-in-the-middle" is Senator Philip A. Hart, a Democrat from the hunting state of Michigan. He has been reluctant to support legislation which

would be against the interest of sportsmen in his home state, and across the nation. Senator Jacob Javits, (R., N.Y.) has also been unwilling to give full support to the Dodd bill.

Though President Johnson did originally call for a restrictive firearms bill, as part of his anticrime campaign, the S.C.A. learned that the arguments presented by millions of shooting sportsmen, along with solid evidence that anti-gun legislation would not help to curb crime, caused the President to modify his original intent.

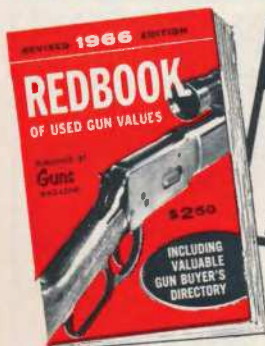
Thus, on receipt of the "Journal American" exclusive quoted above, we attempted to verify its contents through the S.C.A. Washington Bureau. All evidence available from our resources in Washington seems to indicate that the "exclusive" quoted above was premature and highly inaccurate. It must also be kept in mind that the newspaper in question has long been anti-gun, and this release may merely be another attempt to generate anti-firearms propaganda.

S.C.A. Washington sources continue to say that the President has probably changed his thinking on restrictive gun legislation. President Johnson has shown that he does not indulge in hasty, ill-considered actions. And most particularly, he does not support causes which will be received with overwhelming public antagonism. Thus, the administration's study of Senator Dodd's "evidence" could easily mean that the President is ready to publicly reverse his earlier position in regard to firearms control, and is now looking for reasons to justify his new attitude.

Individual shooters must not be misled into hasty action by newspapers which choose to utilize this "information." They are interested only in causing controversy which might harden the President against our cause.

Continue to press home our pro-gun approach through your own elected representatives in Washington, and by courteous, friendly letters to the President.

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(Continued from page 9)

Federal Court at a later date to answer the charge, which carries a maximum \$1,000 fine or one year in prison."

This is the kind of stuff they are starting now since the Dodd Law is being beaten. I suspect that about ninety per cent of the Federal Firearms Dealers Licenses (the kind I have) are held by those of us who are really hobbyists by definition. Gun dealers who are not showing a profit are automatically classified as hobbyists by the Internal Revenue Service. How do I void my license before they spring something on me like they did on this poor dentist?

R. L. Rosenbarger
Indianapolis, Ind.

We suggest that you go to the Treasury Dept. and ask them to discontinue your license. Once you have done this, there will probably be no further difficulty.

You're Welcome

Just wanted to take this opportunity to thank you for the use of your elk hunting movie. Everyone who saw it certainly enjoyed it.

You should make a trip to Nevada sometime and hunt our mule deer. We have some real good ones. Thank you so much.

Frank W. Groves, Director
Nevada Fish and Game Dept.
Reno, Nevada

Fast-Draw Champion

How about a story on the New World Champion of Fast Draw, Bob Graham of Houston, who won the title last May in Toledo, Ohio? Bob is the present Texas State Champion and has won numerous titles in this sport.

A number of women are fast-draw experts, and Bob's wife is the Texas Women's Champion, placing third in the Women's Division of the World Championship Contest. This is an exciting and colorful sport with strict safety rules, and I'm sure many readers would be interested to learn more about it.

T. V. Mixon
South Houston, Texas

How about it readers, would you like to see more articles on fast draw in GUNS?—Editor

Our Thanks To You, Sir

I wish to express my warm appreciation for the fine treatment given my article. I'm proud to be included among your company of experts and authorities.

Chapman J. Milling, M.D.
Columbia, S.C.

Lionel

The Lionel Company's advertisement for toy microscopes is correct; no one ever held up a store with a microscope. But neither did anyone ever overthrow a tyranny, drive back an aggressor from his country, defend his home from criminals, bring outlaws to justice, or establish liberty under an orderly government with a microscope or any of the

other implements that our pacifists would teach our boys to play with instead of guns. Any normal boy loves toy trains and microscopes. He also loves toy guns. If he doesn't, he should be taught to play with dolls. Does the Lionel Company make them, too?

Laurence Lee Howe
Louisville, Kentucky

Perhaps Lionel had better consider that although no boy ever held up a store with a science toy, no gun was ever used to develop an atomic mushroom cloud, either. Microscopes have been used to bring our world to the brink of atomic destruction. Lionel should be proud, maybe?

Franklin W. Hoffman, Jr.
New York

Kennedy's Views

I received recently a letter from Senator Robert F. Kennedy, and thought I would pass it on to GUNS' readers. He said, "In my judgement, regulation of the sale of firearms is in the national interest. It is unfortunate that many of our citizens are confused and misinformed as to the effects of S.1592. This bill would give us the protection we need without unduly inconveniencing legitimate hunters, sport shooters, or gun clubs."

George R. Harrington
Moriah, N.Y.

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If You Like to Hunt or

Enjoy Year Around Shooting

EVERY MONTH of the year presents opportunities for National Rifle Association members to shoot.

More people shoot during hunting seasons than at other times of the year. Sportsmen now enjoy off-season shooting through NRA programs.

Prior to hunting seasons NRA sponsors nationwide sighting-in days and marksmanship practice for rifle and shotgun hunters. Successful hunters know the value of zeroing their guns and practicing before going afield.

A wide choice of rifle shooting keeps NRA members' skills razor-sharp. They fire on indoor ranges at 50 feet using any one of four positions. Bullseyes, game targets and luck targets appear in the sights to add variety and fun. Outdoors, shooters test their skills at longer ranges with .22 caliber and high power rifles. From any of the four shooting positions, or from the benchrest, NRA shooters bring to life the power and precision of the rifles they own.

Pistol shooting is one of America's fastest growing sports. Indoors, at 50 feet, NRA shooters progress from slow fire to rapid fire courses which satisfy competitive spirits and develop coordination and timing. Outdoor pistol shooting ranges, going up to 50 yards, provide shooting fun in all but the coldest months. Caliber .22, .38 and .45 pistols are used.

Skeet and trap fields beckon the waterfowl and upland game hunters to sharpen eyes over their favorite scatterguns. Other shotgunners use hand and foot traps for informal clay bird shooting. NRA provides a full assortment of shotgun programs.

During winter months NRA gun enthusiasts sporterize military rifles, load their own ammunition, carve gun stocks, checker pistol grips and make minor gun repairs. Thousands of indoor ranges throughout the country provide a place to shoot during cold weather months.

In spring and summer months, most landowners welcome NRA marksmen with the equipment and know-how for varmint shooting. Woodchuck, crow, fox, coyote, wildcats and other predators can increase hunting enjoyment, according to regulations of the 50 states. Outdoors during the summer, NRA members can touch-off shot after shot, hear the crack of the guns, smell the burning powder and experience the best of year around shooting fun.

You Can Be Proud to Belong

720,000 HUNTERS AND SHOOTERS—the members of NRA—invite you to join the National Rifle Association and enjoy the many benefits reserved for members. NRA members have a common bond of interest in firearms and their proper use. You can be proud to belong, because NRA is one of America's oldest and best-known associations. Through the years, NRA's membership rolls have carried the names of sportsmen from every walk of life, including five presidents of the United States. In addition to serving its members, the NRA serves the nation. Millions of boys and girls have been taught the safe and proper handling of firearms. Another public service is NRA's Hunter Safety Program with over two million graduates.

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YES As an NRA member you can take full advantage of the opportunities for year around shooting fun. You can also use NRA membership services to enhance your enjoyment of firearms at home and in your workshop.

- ▶ **HUNTING SERVICE.** NRA Hunter Bulletins and *American Rifleman* articles cover game availability, shooting preserves, gun laws and game laws. NRA Hunter Awards are issued for deer, antelope, elk, big horn sheep, bear and moose. Marksmanship improvement programs are conducted the year around by NRA affiliated clubs, including a nationwide "Sighting-in-Day" as a public service to hunters.
- ▶ **FIREARMS INFORMATION SERVICE.** Qualified men give practical answers to queries related to guns and shooting. New gun owners are welcome to write, as are veteran shooters. Plans for shooting ranges are also available to members and member clubs.
- ▶ **RECREATIONAL SHOOTING SERVICE.** Hometown matches and leagues are provided for NRA members using .22 caliber and high power rifles, shotguns and all calibers of pistols. Competition continues through state, national and international tournaments. A National Classification system insures equal opportunities for winning awards. Qualification courses, fun matches, plinking courses and informal shooting games are provided the year around for riflemen, handgunners and shotgun shooters.
- ▶ **GOVERNMENT EQUIPMENT SALES.** NRA members are eligible to purchase from the Army at cost-to government prices, such firearms as are declared surplus or obsolete from time to time. Spare parts and military targets are also available for sale to NRA members by the Army.
- ▶ **FIREARMS LEGISLATIVE SERVICE.** NRA members receive monthly gun legislation information through the *American Rifleman*. Bills requiring emergency action are reported to members concerned through special bulletins.

Preserve Your Right to Own Guns

Every citizen has a vital interest in his right to possess and use firearms. Since 1871 the National Rifle Association—a non-profit



association, supported by membership dues—has stood against ill advised attempts to disarm our citizens through anti-firearms laws. NRA must continue to take the lead in turning the tide of uninformed anti-firearms opinion. We need the voice and support of every American citizen who believes in the fundamental concept of the right to keep and bear arms. The Association is recognized by federal statute, but receives no financial assistance from Congress.

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The world of guns and shooting is thoroughly covered in NRA's magazine — *The American Rifleman*. Readers keep abreast of shooting and hunting activities, relive firearms history, learn the practical use of guns—how to buy, shoot, and care for them—and where and how to hunt for maximum enjoyment. Ammunition, reloading equipment and methods, amateur gunsmithing, shooting programs and gun legislation are subjects fully presented on a continuing basis.

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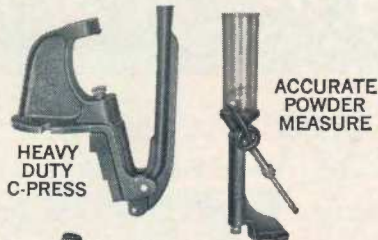
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HANDLOADING BENCH

By KENT BELLAH



MANY CHAPS OVERLOAD Magnum revolvers for routine shooting, resulting in "shook-up" guns with poor accuracy. You'll never become a good handgunner with such guns. The most common caliber is the .357 Magnum because it's by far the most popular, and overloads do not give excessive recoil. These guns take powerful proof loads of around 60,000 psi. The hottest factory load is the R-P .357 S.P. load. In our test of a current lot of this fine ammo, pressure averages 34,000 psi, with minimum 27,500 and maximum 40,200 psi, at an average velocity of 1591 fps, with minimum 1530 and maximum 1638 fps. Despite the large velocity and pressure spread in a V & P gage accuracy is good.

The loads I've recommended from time to time have a much smaller velocity and pressure spread. They give better accuracy and permit a higher average pressure without damage to your gun, if you use the specified components. We have spent much time and effort to develop hot working loads (or "maximum" as some people incorrectly call them). They won't damage your gun in reasonable volume over a period of many years, but they are not intended for routine practice shooting in volume. A .357 Magnum is so powerful that slightly reduced loads are more than ample for any normal heavy-duty use on man or beast.

A well placed hit will bag a big bull moose or stop the toughest man. A poor hit will not, even with a .30-30 rifle. At 100 yards a .30-30 delivers more than twice the energy of the hard kicking, slow shooting and slow handling .44 Magnum revolver. The big Magnum is not such a powerhouse as some writers rate it. For sure killing or sure stopping you have to depend on a well placed hit. You can't depend on handgun power that is not very powerful at best.

I recommend .357 Magnum reloads at no higher pressure than the hottest current factory loads, and these only for limited specific use. For example, the hot R-P .357 S.P. load is popular with the Highway Patrols for heavy-duty highway gunfighting. The average officer doesn't use many rounds for routine shooting practice, where the lower pressure R-P and W-W lead bullet loads are more desirable. The R-P lead runs an average of 23,900 psi, while the W-W averages 30,600 psi. For handloaders who want heavy practice loads I believe pressure in the range of these factory loads is hot enough, and the power is more than ample for big handgun game, or any other use.

Some extremely high pressure loads have been published that may shake up a gun in less than 400 rounds. Some chaps use normal loads with non-specified components, especially bullets, that give excessive pressure. All loads in Speer's No. 6 Manual are dependable, with maximum pressure in the 29,000 psi range. All loads I've listed in this magazine are well within maximum factory pressures, although some are a bit hotter than listed by Speer. For example, Speer's top load with their 160 gr. jacketed bullet is 15.0 gr. 2400 with CCI 500 primers, at 29,000 psi. I recommend 16.0 gr. with CCI 550 Magnum primers, at 33,900 psi, for any reasonable amount of shooting where an extra-heavy load is desired.

Revolver chambers and barrels take terrific pressures without damage, but the frames are weak. Continuous firing of hot loads will turn a gun into a clunker prematurely. Most such guns have a good finish, barrel and chambers, but the chambers are not in perfect bore alignment, or do not hold in perfect bore alignment.

You can check for looseness by holding the trigger tightly in fired position and check the cylinder for rotational play. A good tight gun has practically no play. Colt's are tighter fitted at the factory than S & W guns. The two point Colt hand presses the cylinder against the frame at the instant of firing, while the S & W presses it away from the frame. This feature, and some others, lead many to consider the Colt system superior to any other. No revolver, however, should be made to digest too many heavy overloads.

The .38 Specials are often overloaded. Colt guns are listed for factory high speed ammo, while the only S & W guns listed by the factory for this high efficiency ammo are their ".38-44" models on the large .44 (N) frame. The standard (K) frame models won't blow up with high speed ammo, but they shake up rapidly. The S & W Airweight models have aluminum frames. They are made for minimum weight for carrying convenience, with a rather short but useful life. Loads in Speer's Manual are dependable, with pressure no higher than 18,000 psi. The life of light frame guns will be increased if you load a bit under 18,000 psi.

Speer lists .44 Magnum loads up to 40,000 psi. I can't think of any good reason to load this hot for any normal handgun use, except the majority of owners shoot very little and simply want a "bragging gun." On this basis a gun will last a great many years with even

hotter loads. I personally prefer loads no hotter than 26,000 psi.

With rifles velocity becomes a factor in shocking or killing power at around some 1800 fps or more. Below that speed it plays a small part, just as with handguns. Like handguns, the power depends mostly on penetration of a vital organ. At extremely Hi-V the shock is terrific, even in non-vital areas, with any reasonable bullet weight. Rifles are seldom overloaded, because the actions lock up tight with very little free "play," and they are extremely strong. They do not "shake up" like revolvers. Speer's Manual lists well standardized loads. Their hottest loads printed in black ink have been suitable for all rifles we have fired, and none of loads in red have been excessive.

Greatly reduced loads work well for small game in some big bore rifles. Unique powder seems to be the best. Specific loads for one rifle may not be accurate in another piece, especially with near minimum charges. Rimless cases should be identified and kept separate for squib loads. It's best to start with the highest listed charge and work down, or until accuracy is satisfactory. Do

not use less than the minimum charge. Accuracy will improve if you elevate the rifle muzzle before each shot. All loads use Unique powder.

In a .222 Remington start with 7.0 gr. with a 50 gr. bullet and work no lower than 5.0 gr. for 1500 fps. For a .270 with 130 gr. jacketed bullets start at 16.0 gr. and work down to 13.0 gr. for 1486 fps, or 10.0 gr. for cast bullets at 1470 fps. In a .30-06 with 150 gr. jacketed bullets start with 16.6 gr. down to 14.0 gr. for 1450 fps, or with the same weight castings down to 11.0 gr. for 1425 fps. For the .30-30 with 170 gr. jacketed bullets start with 11.0 gr. and down to 8.0 gr. for 1185 fps, or the same weight cast gas check with the same charge for 1320 fps. These will give you a good idea of how to start with reduced loads in other popular calibers.

Don't attempt to obtain Hi-V with Unique powder in rifles. As the charge is increased beyond a certain point, pressure increases rapidly. For example, a .30-06 proof load is a 173 gr. bullet with 22.5 grains. Never attempt to fire this "blue pill" load!



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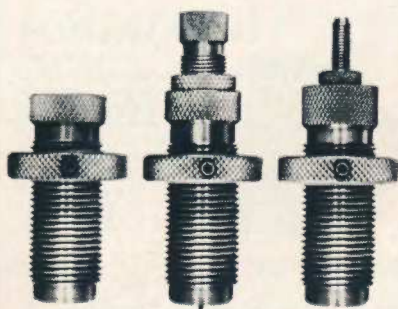
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OUR MAN IN WASHINGTON

CARL WOLFF



WILL THE REAL "GUN LOBBY" PLEASE STAND UP?

Across the Nation, and in Congress, a big myth has been created about a mysterious and even sinister "gun lobby" here in Washington. The myth, designed to label those who befriend the American shooter's rights to obtain and use guns, is a deliberate and well calculated attempt to mislead and prejudice the uncommitted lawmakers and the general public.

Long ago, the word "lobbyist" was coined by the press to mean something less than pure. Webster's Dictionary defines a lobbyist as "a person who tries to get legislators to introduce or vote for measures favorable to a special interest that he represents." Lobbyists often literally waited around in the lobbies (or more correctly, halls) of Congress in order to talk to senators and congressmen as they move about; hence the name "lobbyist" came into being.

By making "gun lobby" apply to those who point to the folly of unreasonable gun controls, those seeking the enactment of the anti-gun laws want to silence the opposition. But, as the dictionary states, those seeking the enactment of anti-gun laws are the actual "gun lobby."

This gun lobby is headed by Sen. Thomas Dodd (D., Conn.). He is assisted by his personal staff, by the staff of the Subcommittee on Juvenile Delinquency which he directs, and by officials within the Administration. The purpose of this lobby is simply to see that the pending gun legislation is enacted. The anti-gun articles in nationally circulated magazines do not appear by accident, and the one-sided coverage by national broadcasting networks can be explained.

Sen. Dodd's Subcommittee, which is handling the Administration gun laws, also has a running investigation into the effects of the various media upon American youth. Even without pressure this is sheer power.

Because they are under investigation, television networks and publishing houses are ready to befriend Sen. Dodd in his anti-gun crusade. Under his direction, the Juvenile Delinquency Subcommittee staff are in continuous contact with TV and publishing house executives. The same senate staff stands ready to make anti-gun speeches and arrange personal contacts with Sen. Dodd. Anti gun-releases are circulated at public expense.

Within the Administration, Attorney General Nicholas Katzenbach and James Bennett (the ex-head of the



Federal Bureau of Prisons who has been retained as a consultant to the Justice Department) visit the lawmakers and publicly speak against gun ownership. There are even awards for those who participate in the anti-gun drive. John W. Coggings, Supervisory General Attorney (Tax), Alcohol and Tobacco Tax Legal Division has been awarded \$500.00 as a Special Service Award "for tireless effort, intelligence, and initiative in drafting and developing the Administration's legislative proposals with respect to the traffic in firearms."

The lobby for enactment of the pending gun legislation sincerely believes it their duty to push forward. Making its own rules, it operates under the auspices of the government. It is well organized and well financed, and the taxpayers-gun owners included-pick up the tab.

Actually, how much cash was spent last year by the anti-gun force cannot be determined, but a conservative total would run upward of \$150,000. If all the air time and magazine space used in this effort were paid for, it would probably run upward of \$5 million.

There is, of course, the other side of gun lobbying here in Washington. As Congress applies the word "lobbyist" to the laws which regulate the profession, it means a person outside government who seeks to influence legislation. In this case, a lobbyist merely represents an interested party before a law is enacted; the same as a lawyer advises an interested party after a law is enacted. It is no less honorable than the lawyer's profession and, as a matter of fact, lobbyist are usually lawyers. For an industry not to be represented in Washington is much like going to court without a lawyer.

Lobbyist are a source of information for the reporter. It is this reporter's professional judgement that the so-called mysterious and sinister pro-gun lobby consist of three factions. One represents a surplus firearms importer, another the domestic gun manufacturers, and the third represents the remaining portions of the shooting industry. Unlike the anti-gun lobby it is divided, each faction representing their special interest. It is neither well financed nor well organized. Their total expenditure will probably amount to what it cost to keep one anti-gun official on the government payroll.

There is, however, still another gun lobby, as Sen. Dodd uses the term. This lobby, including myself, keeps the public informed as to what is happening with the pending gun bills—the press. Through our readership we influence the lawmakers. But we, too, are divided. Some of us are anti-gun and some of us are pro-gun, and the pro-gun members of the press, which stands on the side of the gun owners, are as badly outnumbered as the pro-gun lobby.

However, the anti-gun lobby and the anti-gun press often aids the gun owners. Each time anti-gun coverage appears in the press, some gun owners are provoked into writing to their senators or congressmen. To that extent, the anti-gun forces aid the gun owners by unintentionally producing pro-gun mail.

With all these "gun lobbyists" at work there is bound to be some confusion. But, if the real gun lobby were made to stand up, we would find them to be officials of the federal government.



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For the first time
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A Guide To Spur Trigger Values

By C. ELTON SHOMBER

TABLE A

The following are .22 caliber pistols and revolvers usually found to bear only the name shown. Some however, bear patent dates which can be utilized in tracing the arm to its proper source.

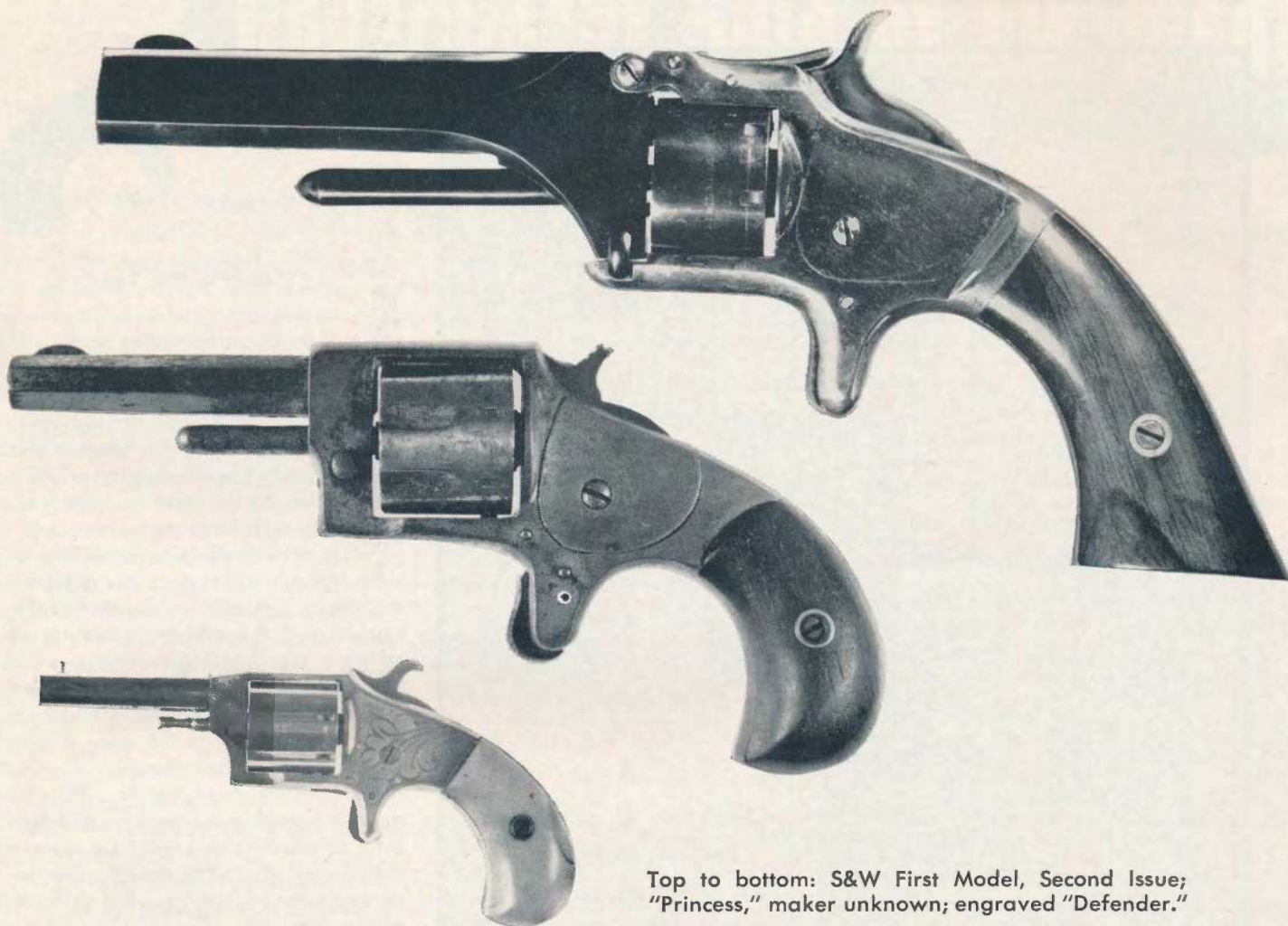
Name	Caliber	Manufacturer	1960	Value 1963	1965
"Aetna"	.22	H. & R., Worcester, Mass.	\$ 2- 6	\$13- 20	\$20- 30
"Alert 1874"	.22	F. W. Hood Norwich, Conn.	2- 6	5- 10	12- 20
"Blood Hound"	.22	Unknown	2- 6	5- 10	12- 20
"Bluejacket 1½"	.22	Hopkins & Allen Norwich, Conn.	5- 10	8- 12	15- 25
"Bull's Eye"	.22	Unknown	2- 8	5- 10	15- 20
"Dead Shot"	.22	Lucius W. Pond Worcester, Mass.	2- 8	5- 10	15- 20
"Defender"	.22	Iver Johnson, Chicopee Falls, Mass.	2- 6	10- 20	20- 30
"Defiance"	.22	Bliss and Goodyear New Haven, Conn.	2- 6	5- 10	15- 25
"Duplex"	.22	Osgood Gun Works Norwich, Conn.	45- 70	50- 75	55- 85
"Empire"	.22	J. Rupertus Phila., Pa.	20- 30	24- 36	30- 45
"Eureka"	.22	Unknown	2- 6	5- 10	15- 25
"Favorite"	.22	Iver Johnson Arms & Cycle Works	2- 10	10- 20	20- 30
"Gem"	.22	J. Stevens & Co.	15- 23	20- 35	35- 50
"Imperial No. 1"	.22	Unknown	2- 6	5- 10	15- 25
"Iroquois"	.22	E. Remington Ilion, N.Y.	30- 70	40- 70	50- 85
"Leader"	.22	Unknown	2- 6	5- 10	15- 25
"Liberty"	.22	F. W. Hood Norwich, Conn.	2- 6	5- 10	15- 25
"Little Giant"	.22	Bacon Mfg. Co. Norwich, Conn.	2- 10	10- 15	15- 25
"Lone Star"	.22	Unknown	2- 6	4- 8	10- 20
"Napoleon"	.22	Ryan Pistol Mfg. Co. New York, N.Y.	2- 6	4- 8	10- 20
"OK"	.22	J. M. Marlin New Haven, Conn.	14- 22	15- 25	35- 40
"Parole"	.22	Unknown	2- 6	5- 10	10- 20
"Prairie King"	.22	Bliss & Goodyear New Haven, Conn.	2- 10	10- 15	15- 20
"Princess"	.22	Unknown	2- 6	4- 8	10- 20
"Protector"	.22	Bliss & Goodyear	2- 6	4- 8	10- 20
"Ranger 22 Long"	.22	Hopkins & Allen Norwich, Conn.	12- 14	15- 20	20- 30
"Red Jacket No. 1"	.22	Lee Arms Co. Wilkes-Barre, Pa.	10- 15	15- 20	20- 30
"Rover"	.22	Unknown	2- 6	4- 8	10- 20
"Sterling"	.22	Unknown	2- 6	5- 10	10- 15
"Tycoon"	.22	Iver Johnson Arms & Cycle Works	2- 10	10- 20	20- 30
"Victor"	.22	Harrington & Richardson	6- 10	10- 15	15- 30
"XL No. 1"	.22	Hopkins & Allen Norwich, Conn.	2- 6	10- 15	15- 25
"You Bet"	.22	Unknown	2- 6	12- 14	15- 20



"Defender" (top), and Allen
& Wheelock with sidehammer.

THE YEARS BETWEEN 1865 and 1900 have occasionally been referred to by collectors as the "era of handguns". The turn of the century, however, saw a marked decline in the number of handguns sold to individuals for that purpose. This was attributed largely to a degree of established law and order plus the rather dubious encumbrance of some of the first anti-gun laws to plague the country.

The majority of the handguns produced during this period are known today as "spur trigger" pistols. Most of them were cheaply constructed and bore few, if any, marks of the true craftsman. It would be virtually impossible to accurately calculate the exact number of spur trigger pistols which were literally dumped onto the market within a very short time following Smith and Wesson's introduction of their famous .22. However, it would probably be correct to say that an even close estimate of the total number would stagger the imagination. The degree to which the gun market eventually



Top to bottom: S&W First Model, Second Issue; "Princess," maker unknown; engraved "Defender."

became saturated with this particular gun is evidenced by the offers of some of the mail-order houses and hardware stores to give these guns away free with purchases of certain amounts. Such was the regard in which the spur trigger was held during the declining years of the 19th century.

For some time, little discussion has been raised concerning the spur triggers produced during those intervening 35 years. In general, these guns were completely ignored by collectors, to such a degree that a dealer often held them for a period of 6 months to a year before finally disposing of them. Some collectors considered them too "off-beat" an item for serious collecting, and a few others suggested that perhaps the spur trigger was representative of the degeneration of firearms manufacture prior to the inception of the double-action and semi-automatic principles. True or not, the fact remains that for many years, the collecting of spur triggers was almost nonexistent, and has only recently exhibited signs of life.

As outlined in previous articles regarding these particular guns (see GUNS; May, 1964 and March, 1965), the reasons for the rise in spur trigger popularity are several. Scarcity of the more sought-after collector's guns, often ridiculous prices asked for some of the more popular pieces (Colt Single Actions are a good example), and an abundance of already-established collectors are but a few of the many reasons one could name. No single one of these could have caused collectors to consider other guns. However, the combination of them all succeeded in forcing the new collector and others in search of some new field to conquer. The ensuing interest in the spur trigger was the result.

The "interest explosion," in which the spur trigger now plays the major role, has sparked a revolution in the prices of these former unknowns. Just a few short years ago, it was not all uncommon to pay as little as \$2 for one of these specimens and still leave the dealer with the feeling that he had fared well. Such will probably never

happen again. A very perceptible quickening of sales of the spur trigger indicates that a considerable number of collectors are joining the revolution. If the present trend continues, and there is no reason to suppose that it will not, collectors of these guns can look forward to more and more value increases in coming years.

To author an article dealing with the dollar value of a certain type of firearm (or anything else of value, for that matter) is a very difficult proposition. Such an undertaking requires considerable preparation and research, coupled with the hours spent conversing with dealers and hobbyists. After all the material has been compiled and the finished work has been submitted, one still has only a general guide. It is not intended that this article be construed as the last word regarding the values of the guns shown, nor is it our intention to dictate to anyone the value he must place on a certain gun. Rather, this work is directed primarily toward the novice collector who, in many cases, is wholly unaware of the true

TABLE B

Name	Caliber	Manufacturer	1960	Value 1963	1965
Allen & Wheelock sidehammer pistol	.22	Allen & Wheelock Worcester, Mass.	\$ 18- 25	\$ 20- 30	\$ 25- 40
American Standard revolver	.22	American Standard Tool Co. Newark, N.J.	16- 25	20- 30	25- 35
Bacon cartridge pepperbox	.22	Bacon Arms Co. Norwich, Conn.	28- 40	35- 55	35- 75
Continental Arms pepperbox	.22	Continental Arms Norwich, Conn.	30- 40	37- 60	50- 75
Continental single-shot pistol	.22	Continental Arms T. Copeland	12- 20	14- 21	18- 30
Copeland revolver	.22	Worcester, Mass.	17- 25	19- 29	25- 35
Colt Old Line	.22	Colt's Mfg. Co. Hartford, Ct.	25- 40	30- 50	40- 65
Cowles single-shot pistol	.22	Cowles & Son Chicopee, Mass.	14- 20	17- 26	20- 30
Deringer revolver	.22	Deringer Works, Phila., Pa.	30- 42	40- 65	50- 75
Dickinson pistol	.22	E.L. & J. Dickinson Springfield, Mass.	28- 40	32- 48	37- 55
Driscoll single-shot pistol	.22	J. B. Driscoll Springfield, Mass.	27- 40	27- 40	35- 50
Ethan Allen sidehammer revolver	.22	Ethan Allen & Co. Worcester, Mass.	13- 20	18- 27	20- 35
Lombard single-shot pistol	.22	H.C. Lombard Springfield, Mass.	20- 30	22- 33	27- 45
Lowell revolver	.22	Lowell Arms Co. Lowell, Mass.	12- 17	14- 21	17- 30
Marlin single-shot pistol	.22	J.M. Marlin New Haven, Conn.	16- 24	20- 30	25- 35
Marlin XXX Standard revolver	.22	J.M. Marlin	12- 20	16- 24	17- 30
Marston 3-barrel knife pistol	.22	Wm. W. Marston New York City	60- 80	100-150	100-175
Morgan & Clapp pocket pistol	.22	Morgan & Clapp New Haven, Conn.	18- 27	20- 30	25- 35
Plant revolver	.22	Plant Mfg. Co. New Haven, Conn.	18- 23	20- 30	25- 35
Reid revolver	.22	J. Reid New York, N.Y.	30- 45	38- 57	45- 75
Remington Vest Pocket pistol	.22	E. Remington Ilion, N.Y.	40- 70	50- 85	75-100
Rollin White revolver	.22	Rollin White Co. Lowell, Mass.	30- 40	35- 55	50- 65
Rupertus double-barrel pistol	.22	Rupertus Mfg. Co. Phila., Pa.	40- 55	50- 75	60- 80
Rupertus 8-shot pepperbox	.22	Rupertus Mfg. Co. Phila., Pa.	40- 65	65-105	75-105
Sharp's pepperbox No. 1	.22	C. Sharps Phila., Pa.	30- 40	36- 54	55- 70
Smith revolver	.22	Otis A. Smith Rock Falls, Conn.	18- 27	20- 30	30- 40
Smith & Wesson Model 1, First Issue	.22	Smith & Wesson Springfield, Mass.	105-160	160-240	135-325
Smith & Wesson Model 1, 2nd Issue	.22	Smith & Wesson	35- 50	35- 50	45- 70
Smith & Wesson Model 1, 3rd Issue	.22	Smith & Wesson T.J. Stafford	25- 40	25- 40	45- 70
Stafford single-shot pistol	.22	New Haven, Conn.	24- 32	30- 45	40- 50
Stevens vest pocket pistol (s.s.)	.22	J. Stevens & Co. Chicopee Falls, Mass.	20- 30	24- 36	35- 50
Stevens Old Model pocket pistol (s.s.)	.22	J. Stevens & Co.	20- 30	22- 33	30- 45
Stevens Old Model pocket rifle (s.s.)	.22	J. Stevens & Co.	25- 40	36- 54	50- 65
Wesson tip-up pistol (s.s.)	.22	Frank Wesson Worcester, Mass.	14- 21	18- 27	25- 40
Wesson 2-Shot superposed pistol	.22	Frank Wesson	35- 55	42- 63	60- 70
Wesson 2-Shot vest pocket pistol	.22	Frank Wesson Whitney Arms Co.	38- 55	40- 60	60- 70
Whitneyville Armory revolver	.22	Whitneyville, Conn.	13- 20	14- 21	20- 35



"Imperial No. 1"

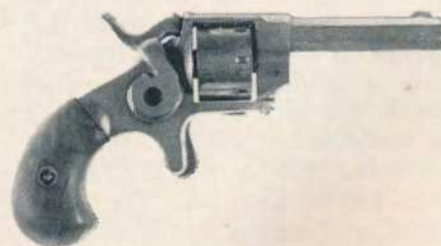
value of the items he wishes to buy. It will also be of value to the occasional dealer who is unable to remain abreast of the current prices of certain guns. Used in either sense, we hope it will help eliminate the inflationary prices a few unknowing or unscrupulous dealers place on these guns.

Every dealer and collector must consider regional differences in evaluating antique gun values. In the case of the spur trigger, it would be impossible to assign a specific dollar value to each gun which would apply to the entire nation. Rarely is a certain make or model sought-after to the same degree by collectors in every locale.

The values cited herein for past years are used as a means of comparison, to enable the reader to observe for himself the often considerable increases some of these guns have already undergone. No allowance has been made for those guns in "factory-new" condition, one-of-a-kind items, or the elaborately ornate specimens one will occasionally find. These values are for guns from average to excellent condition. This listing contains a representative selection which will enable collectors to reasonably gauge values of similar guns. Generally speaking, most of the guns named are available to the collector.

It is hoped that this article will prove valuable to many and perhaps also inspire a few would-be collectors who would not otherwise do so, to get their "feet wet."

Note: Part II will list values of larger caliber rimfire and centerfire spur trigger handguns.—Editor



Ethan Allen sidehammer.

Government Sale of Elk Meat

EVERY TRUE SPORTSMAN will agree that the willful waste of wildlife is a terrible thing. As our population has grown, the game animals have been forced to retreat into smaller and smaller areas. To preserve our wildlife, sportsmen and conservationists have spent great time, effort, and money to learn about game management.

Is it any wonder, then, that sportsmen are outraged when the Federal Government turns tax-paid hunters loose to slaughter portions of the remaining elk and buffalo, only to have these magnificent game animals wind up as spoiled meat, sold at 2½ cents per pound to be used as dogfood, pig's feed and fertilizer?

Documented by official records of our government, this inexcusable story started many years ago, but came to a head in late 1962 and early 1963. In order to reduce the number of elk in Yellowstone National Park, the Park Service began a virtually indiscriminate slaughter of the animal, and soon the mail started to pour into congressional offices, reaching such proportions that Congressman Wayne Aspinall (D., Col.), chairman of the House Committee on Interior and Insular Affairs, approved hearings by a subcommittee to be held in Bozeman, Montana. Congressman Ralph Rivers (D., Alaska), chaired the hearings, and Congressman James Battin (R., Mont.) was asked to sit in and participate in the questioning of witnesses.

This congressional investigation was told that the killing of the elk in the park was the "humane" way to handle the problem. The range could not handle the number of elk and they would starve to death. In a letter dated Oct. 25, 1962, the Assistant Secretary of the Interior said:

"This year, the total reduction target is 1,800 elk by all of the methods described above. If the rangers have to shoot any part of that total, American Indian people will get all of the meat. The tribes are already requesting more meat than we could furnish, even if all 1,800 elk were killed inside the park."

The "other methods of reduction" referred to in the quotation above include hunting outside the park by sportsmen and live trapping for transplanting and research studies. From this statement, there seemed to be little doubt that the meat from these animals would serve a vital need; "American Indian people will get all of the meat."

By letter of Jan. 25, 1963, Mr. Jackson Price, Assistant Director of the National Park Service, advised the lawmakers that the reduction program was under way, and on Jan. 21, 1964, said that "240 elk had been killed and the meat distributed to the Indian tribes." Since the Service could not be talked out of reducing the herd by this slaughter at taxpayers' expense, at least the Indian tribes were going to get all of the meat.

On Jan. 31, 1963, Secretary Stewart Udall issued a press release to the effect that "reduction" was nearing an end and then said:

"Carcasses of all elk killed in the park have gone to American Indian tribes to

(Continued on page 46)

THE FACTS BEHIND A WASHINGTON WHITEWASH!

By CARL WOLFF

James Battin (R. Mont.), who brought this shocking story to the U. S. Congress.



INSTINCT SHOOTING

Breaking targets close to the gun builds confidence. Right: Instinct Shooting equipment.





Pete Rademacher explains the mechanics of Instinct Shooting as the first step in training the boys. Right: Bill Satterfield will try a shot on a target.

**KEEP BOTH EYES OPEN, IGNORE THE
SIGHTS, AND PICK A SPOT ON THE TARGET—
IT'S AS SIMPLE AS THAT.**

By BOB TREMAINE

FOR THE TWO YOUNGSTERS, Bill Satterfield and Jimmy Cooper, this was a red-letter day. Not only were they to become acquainted with Instinct Shooting, but their instructor would be Pete Rademacher, a former U.S. Olympic heavyweight champion who, after quitting the ring, traveled the country with Lucky McDaniel, the inventor of Instinct Shooting.

The concentration of the two boys was intense as Pete began his introductory demonstration. Holding up a rubber washer, not more than two inches in diameter, he asked Bill: "I'll bet that you can hit this with a BB from that little spring gun when I toss it into the air. You don't think so? Well, I'll bet that you could hit it if I held it in front of the muzzle of that BB gun. Aha, so now you think you could hit it. Well, Bill, if you can hit this washer held in front of the gun, you can also hit it when it is tossed in the air."

Pete Rademacher proved his point, for it wasn't too long before both of the boys were knocking 22 out of 25 targets out of the sky with monotonous regularity. The targets ranged in size from aspirins to charcoal briquettes, to special aerial targets designed especially for Instinct Shooting by Pete Rademacher.

Hamlin Products-McNeil Corporation, of which Pete is sales manager, makes an indoor target range and a port-

able trap house, both designed by Pete and used exclusively in his work with Instinct Shooting. The indoor range utilizes rayon baffles and a canvas backing to catch the BB's and drop them into a trough. The BB's can be used over and over again, and they *all* drop into the trough, since there is never any ricochet. The target area is a plastic disc that holds the BB's for a fraction of a second so that the shooter can see the hit on the target, and call his shots. The target and backstop are designed for use with spring-powered BB guns with a muzzle velocity of not over 350 fps. If more powerful guns are used, the rayon baffles are likely to be bruised, although the canvas backing would stop the pellets.

The Instinct Shooting BB Gun Trap comes complete with trap house—a collapsible canvas affair—an operator's seat and table, the special trap, and 25 plastic break-away targets. Both of these products are now sold through sporting goods stores, and through the major chains, such as Sears.

I had read about Instinct Shooting in Mike Jennings' book (Dodd, Mead & Co., New York, 1959) and in the June 1960 issue of GUNS Magazine. Every once in a while I had made a half-hearted stab at trying to learn Instinct Shooting, and although the system worked for others—novices as well as skilled shooters—my success with it had only been mediocre. Now, with (Continued on page 50)



THE FIFTH RAM

NOT SATISFIED WITH
A GRAND SLAM, THE AUTHOR
HUNTED HARD FOR A FANNIN SHEEP

By ANDY ANDERSON



IN THE AREA OF CANADA where the game-filled mountains of northwestern British Columbia blend into those of the southern Yukon, the Stone sheep range overlaps that of the great white Dall. As these two famed species interbreed, the colors of the two are blended, and they give birth to an animal which many scientists, biologists, and expert hunters believe should be termed the fifth specie of North American sheep—the magnificently beautiful Fannin sheep.

Most of the Yukon is Dall sheep country, and J.B. Fitzgerald, Director of Game, told me that beside W. Curly Desrosiers, my outfitter, only one other outfitter had any number of Fannin sheep in his area. There are a few of these in a small part of northwestern British Columbia, but in the tremendous expanse of the Pelly range, the hunting territory of Desrosiers, there are hundreds of them.

The Fannin sheep were the only reason I had flown 4,000 miles, and was now encamped with Curly Desrosiers, a famous Indian Guide named Billy Hall, and my two hunting partners, Jack Phillips and Herman Lawrence.

I had completed my "Grand Slam" in sheep after eight years of hunting and

Author is congratulated
by Herman Lawrence, at
left, and Jack Phillips,
center, on his fine ram.





A skiff of snow had powdered the higher slopes as we got underway for fly-camp—with two rams still to go.



With time running short, I finally located several rams worth taking, and we then began the stalk into position.



The rams being stalked by Jack Phillips spooked, and he had to take a long, running shot to bag this one.



On a short side trip, as we packed out of camp, I shot this "one-in-3,000" double-shoveled mountain caribou.

many thousands of miles of traveling. My first was a record Dall from Alaska, in 1952. Then, high on a cliff in northern B.C., I tumbled a record Stone sheep from his lofty perch. Several years later, Phil Temple guided me to my record size bighorn. I topped off the slam with a desert bighorn in Old Mexico. Even before completing my Mexican hunt, I had been pointing toward this trip. In fact, I had spent eight months checking on guides and areas in which I might be most likely to get what I (and many others) termed a fifth specie of sheep.

My hunting partners and I carried a battery of rifles as varied as our personalities. It included my trusty old .300 H&H Winchester Model 70, with which I have taken well over 100 head of big game in the Americas. For this

hunt, I was using 180 grain Nosler handloaded ammunition. Jack was carrying a .300 Weatherby, in which he also used 180 grain Nosler handloads. Lawrence had a new Winchester Model 70, in .338 caliber, in which he was shooting 250 grain bullets loaded with factory ammunition.

Since each of us were successful in bagging various game animals, some with long range shooting, the above variation in caliber choice points up a fact it is more a man behind the gun, and how accurately he can place his bullet under pressure of hunting conditions, than which rifle he carries.

A man going into the mountains with a qualified outfitter must spend several hundred to several thousand dollars, depending on location and length of hunt. Therefore it behooves

him to give high regard to proper preparation. The latter includes many items too numerous to mention in this yarn. However, I would stress the importance of physical conditioning and shooting preparation because of knowledge gained on over two dozen big game hunts, and also because guides so often tell me that more hunters fail to have the kind of a hunt they wanted due to lack of physical preparation, plus inability to properly place their bullet, when the chips were down, than for all other reasons combined.

Jack, like myself, had hunted many times in Alaska and Canada, and had three of the four recognized specie of sheep, lacking only the desert ram. He was also eager to secure a good Fan-in at this time.

Lawrence (Continued on page 42)

THE STOCKMAKER who has spent time and effort on a new stock doesn't want it to look as if it came off an assembly line. He can vary basic lines only slightly while remaining within the bounds of proved and accepted design. The only way to give the rifle a final distinctive touch is to use a custom checkering pattern which matches and complements the lines of the custom stock.

Any well-done checkering pattern, if it harmonizes with the style of the stock, will add beauty and usefulness. A stockmaker willing to do additional work can design a pattern which will compliment the stock more than any standard style of checkering pattern.

A stocker with an eye for proportion can also use checkering to detract from any errors in the stock design or minor flaws in the wood. For instance, a well-planned pattern can be used to de-emphasize a too-small or incorrectly proportioned pistol grip or too-thin fore-end, frequently found errors which are impossible to correct. But while a good pattern can improve a mediocre stock, a poor pattern can mar the lines of an excellent stock—no matter how well the checkering is done.

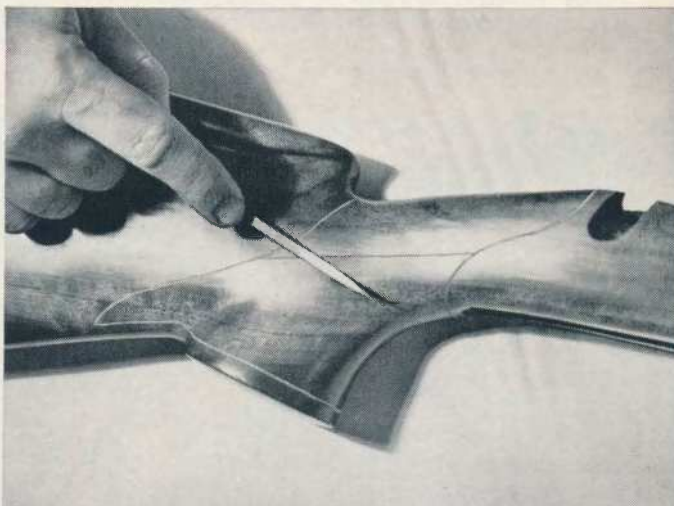
A radical stock probably looks strange with skimpy checkering; a standard stock usually looks even worse with a lavish checkering layout, particularly when it's flavored with plastic inlays and lightning flashes. To harmonize checkering with stock, the stockmaker needs to study dozens of custom stocks similar to his own until he finds one with checkering he likes.

If the stocker wants to "go for broke," doing everything the hard way for the satisfaction of doing a completely individual custom job, he grabs a grease pencil or wax crayon and starts sketching directly upon the stock.

Most writers advocate drawing the design on paper and applying it to the stock as with a standard pattern. I have found that a design on paper looks *(Continued on page 44)*



To compliment a particular gun, the checkering pattern should be sketched on the stock itself.



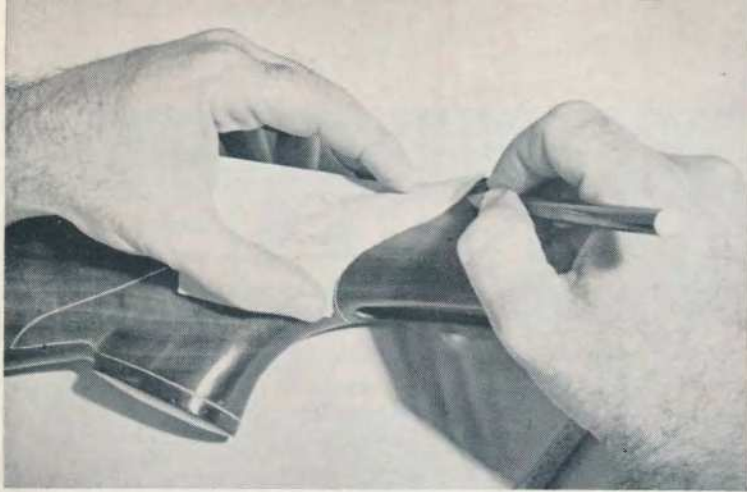
Borders of the design and the base lines are cut with a bent needle file or a single-line cutter.

**SHOP
TIP:**

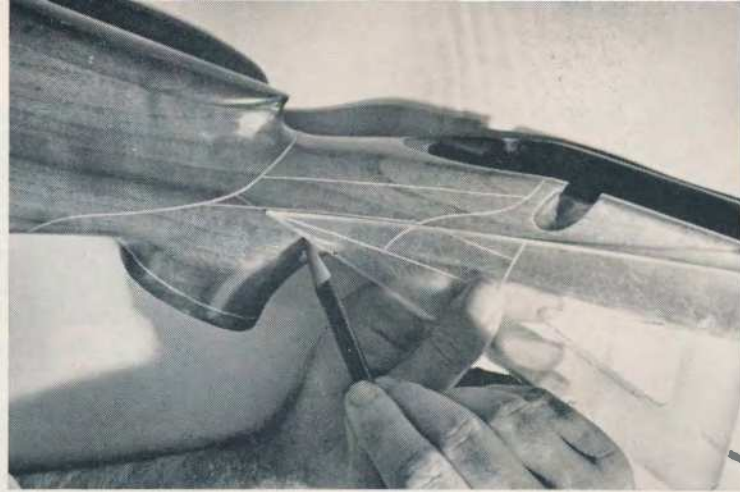


CUSTOM CHECKERING

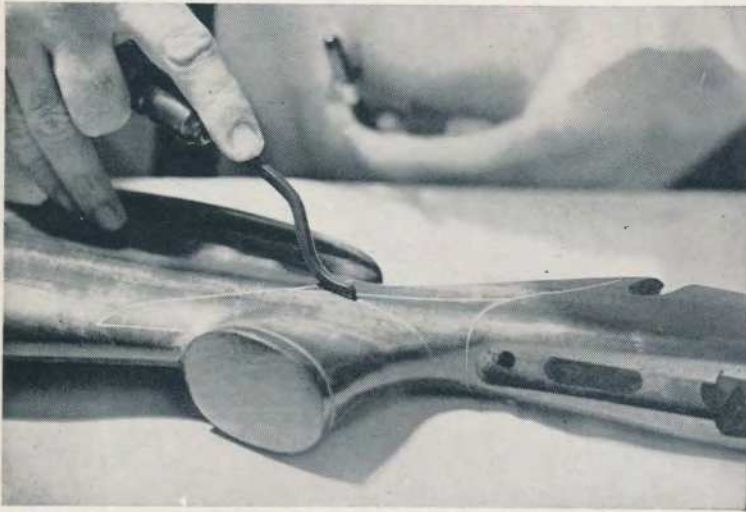
By NEAL KNOX



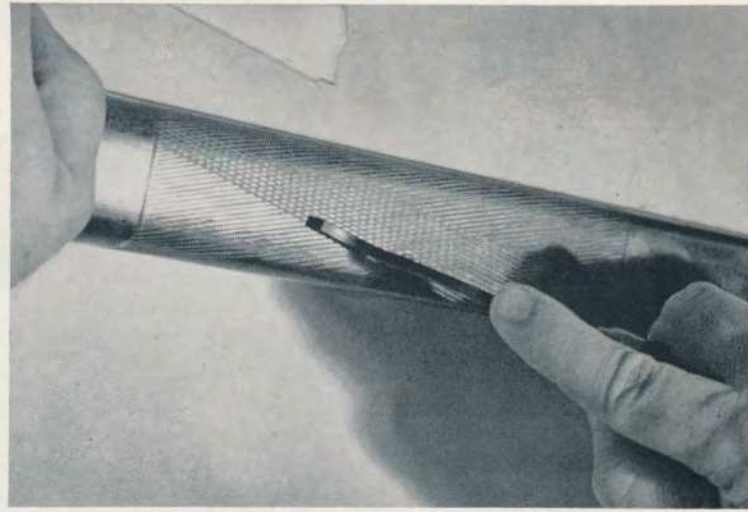
A thin cardboard template is used to transfer the design from one side of the stock to the other, for uniformity.



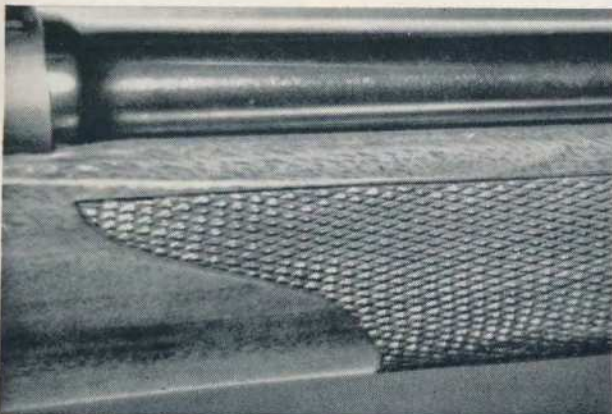
Base lines for spacing diamonds must be perfectly straight, and should be the longest lines of pattern.



Using the base line as a guide, one row of teeth follow this line while the other row cuts another parallel line.



Diamonds appear as crossing cuts are made. Errors or roughness should be smoothed with a fine file.



Checkering lines must be cut to full depth, right up to the border line, to make all diamonds sharp.

Sharp pointed diamonds, even in narrow areas, give professional appearance to finished job.

**Part II: Underwater and
Military Potential of...**

GYROJET ROCKET GUNS

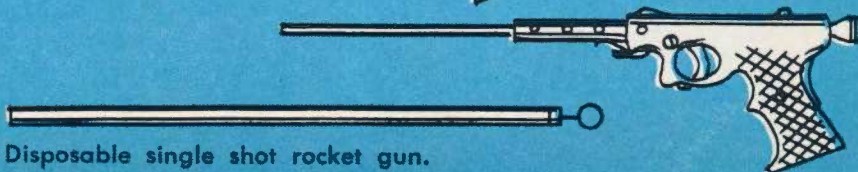
By DANIEL K. STERN

MBA converted this World War II flare pistol to fire a single salvo of a dozen 9 mm rockets.



Underwater six-shooter.

Single shot underwater gun.



Disposable single shot rocket gun.

ROCKET-FIRING pistols and carbines are a reality, and MB Associates of San Ramon, California, have prototype weapons for those who could use them for underwater work or play. These guns have enough punch to pierce a 1" thick sheet of plywood at 25 feet, underwater.

In a tomorrow that may not be too far away, other rocket arms may be doing special jobs for both the police and the military. They may do such things as cracking automobile engine blocks, blasting tanks, or drilling through a tangle of jungle vines and bushes to disintegrate and destroy a hidden target. And they will do it with almost no recoil, in lightweight, nearly foolproof arms that are relatively fast and inexpensive to manufacture.

Fantastic as all this sounds, none of it is fantasy. Let's take up the underwater rocket first.

MBA calls its underwater rocket a "Lancejet." Essentially, the idea is the same as with the company's other rockets—detonating a primer fires the igniter on the main

charge, which fuels the rocket engine, driving the Lancejet through the water with great force. But as the name indicates, this is not a stubby, large diameter rocket such as the carbine and pistol fire. Instead it is a foot-long projectile of quarter-inch diameter weighing two ounces. It looks like a stubby arrow minus its feathers.

"It has five times the power of any other underwater weapon," claims Bob Mainhardt, board chairman and president of MBA. "In fact, we have shot it through as much as two inches of plywood at 25 feet, which is something when you consider that water is 900 times as dense as air."

On accuracy, MBA says that the Lancejet can put half its rockets inside a 16" circle at 25 feet. "We have been using my home swimming pool for testing the Lancejets," Mainhardt says, in acknowledging that a margin of error exists, "and I've got quite a bit of smashed-up tile to attest to the force of some of those misses."

While MBA considers the (Continued on page 56)

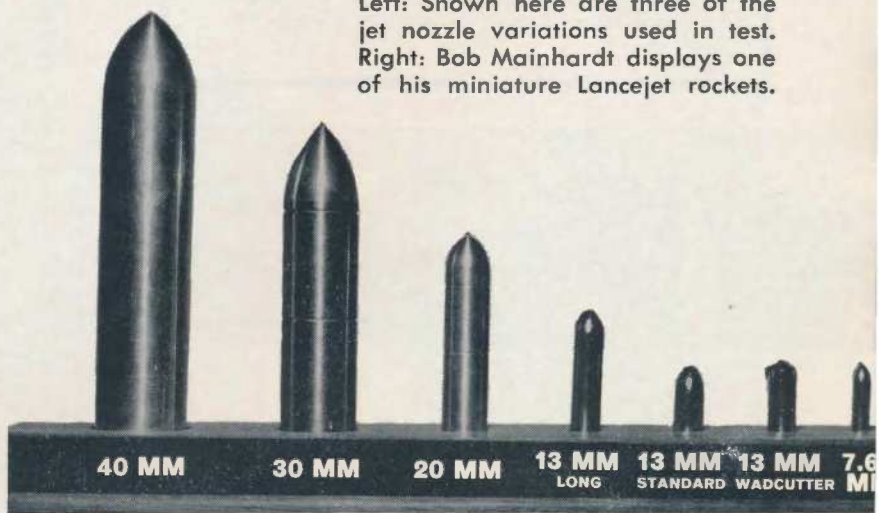
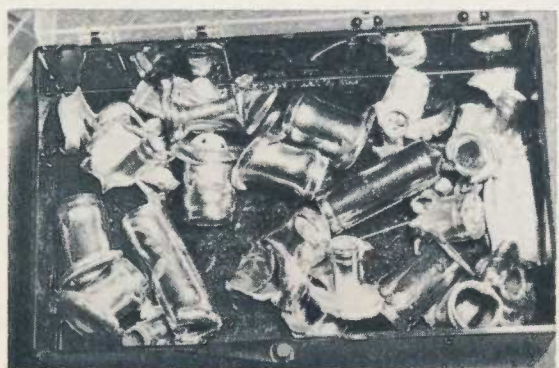


Left: Converted Ruger, used to test weight of hammer strike. Right: Cased single shot Lancejet with assortment of tips.

Above: This single barrelled shotgun has been altered to fire 20 mm rockets. Below: Fired rockets show varying degrees of expansion or rupture, depending on the type of targets hit.



Left: Shown here are three of the jet nozzle variations used in test. Right: Bob Mainhardt displays one of his miniature Lancejet rockets.



PROVED GUILTY BY BALLISTICS

HADLEY vs. ARIZONA

By WILLIAM BRENT

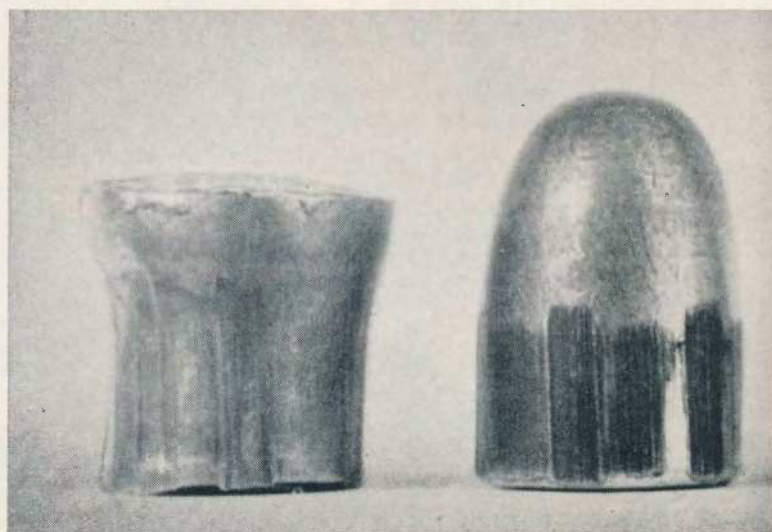


THE SCIENCE of forensic ballistics is old hat by now. Any kid who watches movies or TV knows all about it. But it wasn't old hat in 1922. In fact, it was so new and seemingly farfetched that lawyers, and even some courts, refused to take bullet identification tests seriously.

The case of Hadley vs. Arizona is perhaps the most important case in the relatively brief history of forensic ballistics. It marks the first conviction for murder in the first degree anywhere in the U. S. obtained by photographic evidence of land and groove markings on the bullet from the murder gun, thus definitely establishing guilt. [Wigmore, vol. 2, page 417 A.]

ON NOVEMBER 15, 1921, an elderly couple, Peter Johnson and wife, Anna, traveling westward in a new Dodge 'touring' car picked up a man named Estaver in a Tucson gas station. Estaver's real name was Hadley, and that is what he will be called here.

Hadley told the Johnson's that his automobile had broken down between Ajo and Sentinel; that he'd returned to Tucson to get the necessary small repair parts, and would appreciate a ride back to his stranded car. Johnson at first refused, saying there was no room, since the back seat held their trunk. But Hadley, a convincing talker, had a ready answer for this. He would gladly pay the express charges on the trunk to the Coast, he said, if they would accommodate him. The Johnsons, sold on Hadley's apparent sincerity and his plight, finally agreed to do this. Hadley paid the expressage as offered, and the three of them left Tucson around nine o'clock that morning.



Photograph above was used to show that all bullets fired from the same gun do look alike. Right: Six .32 caliber bullets fired from six different guns; showing that each gun leaves characteristic marks.



Mr. A. J. Eddy, State's witness in this celebrated case, still maintains an active law practice in Yuma.

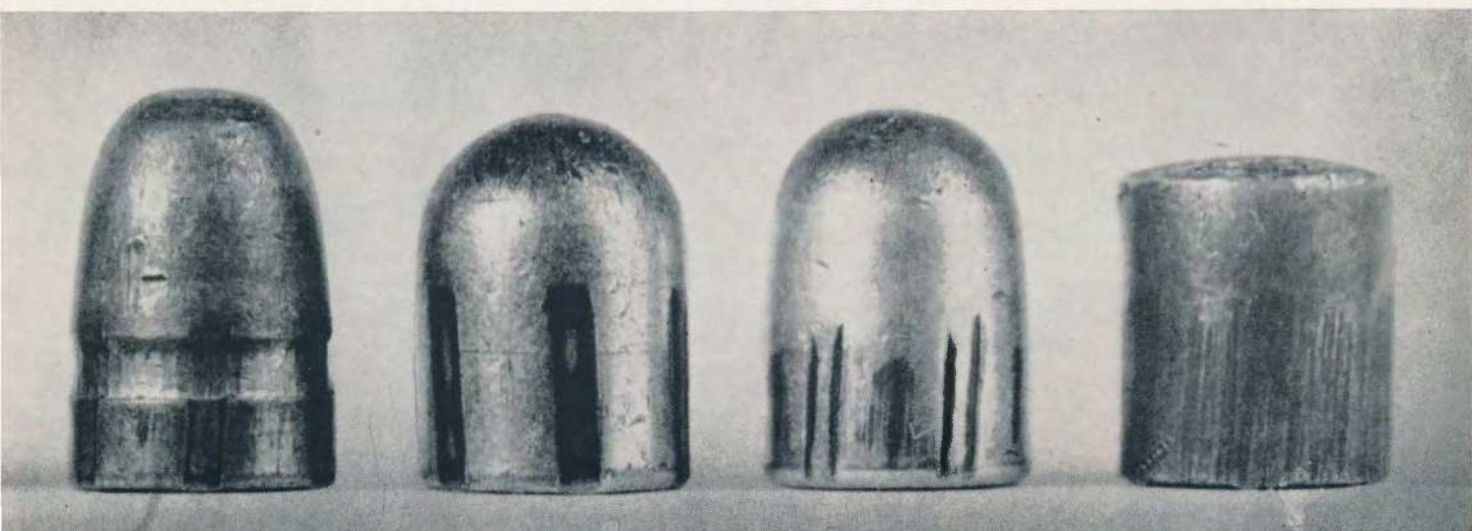
Desert roads were in pretty bad shape in those days, and the going was slow. Nightfall found them with still some distance from where Hadley said he'd left his car. Then, according to Johnson, Hadley, from the left rear seat of the car, shot him four times and pumped three bullets into Mrs. Johnson, without any provocation.

Johnson, badly wounded, hit the accelerator, and as the car lunged forward, Hadley either jumped, or was thrown out. Some 15 miles from the scene of the shooting, Johnson stopped his car, and discovered that his wife was dead. He pulled off the road and remained in the car until morning, then drove into Stoval—a small settlement hardly more than a wide spot in the road—where he reported the shooting. By coincidence, Hadley had arrived in Stoval at the same time and was promptly arrested.

Assuming that Mrs. Johnson's killing had taken place in Yuma County, authorities there began preparing the case after a preliminary hearing in Stoval. At this hearing Hadley, facing a murder charge, offered as his defense the claim that he and the Johnsons had been ambushed and shot by three (Continued on page 48)



These four .32 automatics are representative of the types used by Mr. Eddy in his testing.



Prairie Chickens Make a Comeback

NOT SINCE 1927 HAVE
PRAIRIE CHICKEN PRESENTED THE
HUNTER WITH SUCH NUMBERS.



It takes an acre of standing corn to support thirty prairie chickens during an average plains winter.



By BERT POPOWSKI

BACK IN 1927, George Shimon and I had tramped miles of likely prairie chicken cover, and hadn't jumped a single bird. Since we were after prairie chicken only, and no other game was in season, it looked as if our day would be a complete bust.

Then, late in the day, I glimpsed a couple of heads in a small grain stubble; they looked shorter than pheasant headgear, and sank out of sight much slower than would a ringneck. We crammed our Model 17 Remington shotguns full of No. 6 game loads, and circled in on the spot where the heads had disappeared. After five minutes, George was disgusted, and he wandered away muttering that they must have been pheasants. I had my doubts, and made another criss-cross of the area to satisfy myself.

Suddenly, only a step ahead, a chicken buzzed out. And, as the shotgun came to my shoulder, I saw the rest of the flock, about eight or ten birds. When the next few seconds were over, I had filled my limit with five plump prairie chickens.

I didn't know it then, but those were the last birds of that species, alive or dead, that I would see for the next 37 years. That 1927 hunt came at a time when prairie chickens were on a toboggan slide leading to their near extinction. Market and sport hunting had little to do with their demise, which was caused chiefly by the farming of virgin sod which the chickens require as habitat.

Since 1960, I had been hearing rumors of a recovery of chicken numbers and was interested in hunting them again. However, since South Dakota lumps them with its native sharp-tail grouse and holds simultaneous seasons on both, I didn't believe a strictly chicken hunt would pay off. Prior to the 1963 season, chickens in the total grouse bag had hovered around a negligibly 1 to 2 per cent.

The pieces of my proposed 1964 chicken hunt had fallen into place like the simplest of jig-saw puzzles. First, I learned that about 15 per cent of all checked grouse of the 1963 season had been chickens, with some hunting parties reporting all-chicken bags.



Here's a happy crew of South Dakota Game Department men who found that the prairie chicken has really come back in quantity.

Second, several old-time chicken hunters pinpointed areas where all the birds they'd seen had been chickens, with no admixture of sharptails.

Finally, I met Dr. Richard Crowder at a coffee-klatch, and when I told him I was going chicken hunting he immediately brightened and suggested going along. Ten minutes later our plans were complete, except for such minor matters as to which guns and loads, which cameras and film, which vehicle to use, and when we'd take off.

South Dakota's best present chicken range is along the west flank of the Missouri, now in dam impoundments throughout the state. This is a region untouched by the last glacial age, exposed to considerably more erosion than the eastern bank, and roughened still further by many creek tributaries which eventually drain into the Missouri from the west.

The country is far too rough to ever crowd chickens out of nesting habitat through plowing up the sod. Yet, there is enough cropland to provide the birds with an abundant well-balanced diet. Thus, they have all the essentials of their preferred habitat; sod for nesting and shelter, plus native and introduced year-around foods. This was the area we would hunt.

Dr. Crowder brought a favorite 20 gauge Ithaca double. He also took a Model 97 Winchester, a shotgun in wide use during the fattest of chicken-hunting days. Meanwhile, I stood with my reliable Ithaca 12 gauge pump, but also took along a Remington semi-auto 28 gauge, for which I had one-ounce

magnum loads. Our ammunition ranged from game loads of 6's and 7½'s to trap loads of 7½'s and 8's.

Right at the point of takeoff we got an added bonus. My elder son, John, Assistant Chief of Game Management for South Dakota, was going to be working a game-checking station at Chamberlain. Since hunters rarely show up at such checkpoints before noon, that gave John and his assistants a chance to hunt during the mornings.

Until 1964, the South Dakota grouse and pheasant seasons had seldom overlapped by more than a very few days. But this year the grouse season, including both sharptails and chickens, opened on September 12th and ran continuously throughout October 31st. Meanwhile, the pheasant season opened on October 17 and, in the choice areas, continued for 60 days. This was a bonus overlap which residents accepted joyously, though few visitors recognized it as an unusual bonus.

Richard and I quickly learned that you don't just put in your order for one kind of grouse and automatically have four cherries come up. Especially when the chickens we sought comprised less than 15 per cent of the total population, with sharptails holding the edge.

John and his crew hunted hard with us all morning and we turned up nothing but sharptails. So, when they turned back to their checking-station chores Richard and I started looking for more typical chicken habitat. Finally, we found just such a place. Anyone looking at it could see that no plow had ever

(Continued on page 41)



FIELD TEST

The Model 700 Webley & Scott

By R. A. STEINDLER

THE DOUBLE trigger and the straight stock of the shotgun felt strange in my hands. I nestled the butt of the gun in my shoulder, took an experimental swing, and yelled "Pull!" I heard the click of the Trius trap as my wife released the lanyard, saw out of the corner of my left eye not one but two birds—oh nuts, two angling birds going away to the left. I picked up the lead bird, pulled the rear trigger, swung on the second clay and jerked the front trigger. Somehow or another I hit both targets and the pieces of the clays plopped into the weeds. Those left-angling birds had always been my downfall, but this time I had nailed them—and good, too!

From then on, my wife threw doubles and singles, in a wild array of angles, elevations, and sometimes almost directly into the sun where the only sight picture I got was the narrow edge of the clay as it sailed into the sky. When I toted up the score, I had busted an incredible 24x25 birds—and it was not my skill with a smoothbore that can be credited with this unprecedented victory. The gun, an inanimate object composed of steel and wood, had come alive in my



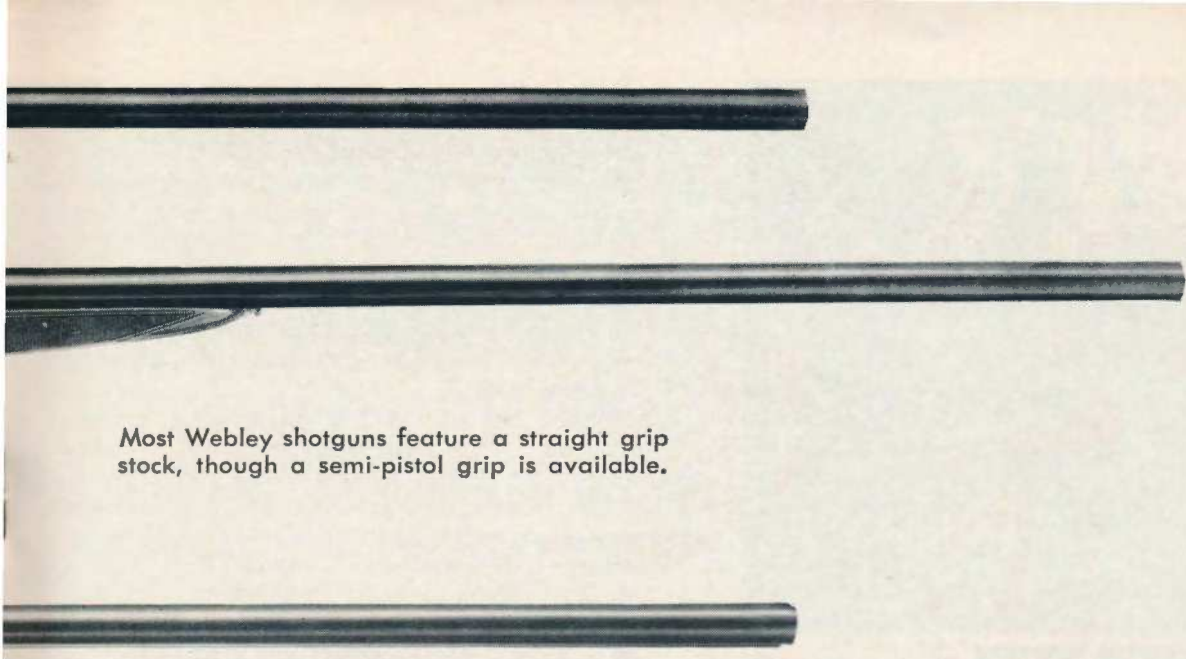
MODEL 700



MODEL 701



MODEL 702



Most Webley shotguns feature a straight grip stock, though a semi-pistol grip is available.

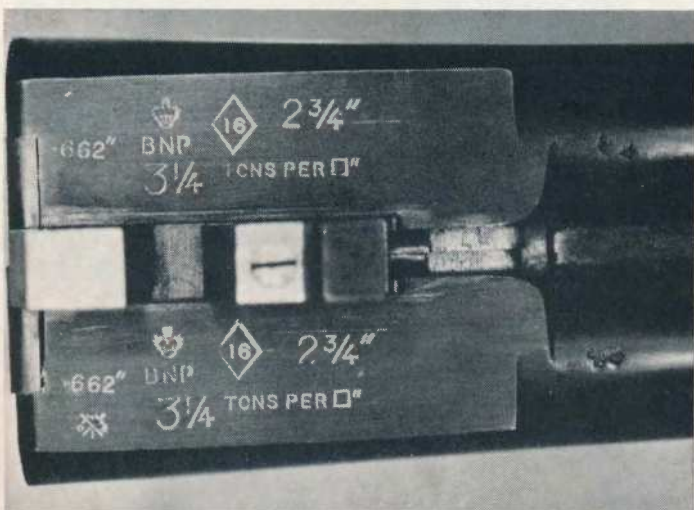


Since no game season was open, author's test firing was done over traps. Even here, fine shooting qualities of the Webley were evident.





Many hours of hand labor go into each Webley shotgun, fitting various parts together precisely.



Proof markings of 16 gauge test gun. The 3½ ton proof marking is more than ample for standard U.S. loadings.

hands, had become an extension of my arm. The side-by-side I was shooting that spring Saturday afternoon was a 16 gauge Model 700 Webley & Scott with automatic ejectors and automatic safety. Later that same afternoon I fired three more rounds of trap, this time using a 20 gauge Model 700. Having moved another 10 yards away from the Trius trap, I had expected my scores to drop accordingly, but my final average was still a respectable 21x25—far better than I have ever scored with any other 20 gauge before.

Webley & Scott, Ltd. has been building fine firearms for over 175 years. A constantly spiraling demand for Webley & Scott guns—and when the British shooter talks about “gun” he means shotgun—brought Mr. L. J. L. Hill, General Sales Director, to the States early in 1965. While visiting the GUNS offices, we had a chance to talk with him about some of the Webley & Scott guns. “We don’t make a ‘best’ grade sidelock gun,” said Mr. Hill. “But we do make a ‘best’ grade boxlock gun; our Model 701, which is of ‘best’ quality, and made to the customer’s specifications. However, our custom work must conform to our ideas. That is, if a customer specifies features that we don’t believe are good or are not worthy of the company’s name, we will not build the gun. We are importing a small number of our Model 700 in the States now, and are planning to increase our imports to the U.S.”

What changes would Webley & Scott make in those imports to conform to American tastes and preferences? “We have open minds on changing our features. We feel that the American sportsmen will be easily converted to the British style gun with its double trigger and straight stock.” When I pointed out that our hunting conditions vary greatly from the British ones, Hill agreed, but he in turn pointed out that pheasants and grouse don’t flush any differently in Kent than in Illinois or New York.

“Will you add pistol grips to the Model 700?” No such plans are being contemplated, but “we do offer a half pistol hand stock, and could offer full pistol grips if U.S. demand warranted.”

“What about single, selective triggers on guns made for U.S. sales?” “We have several plans for the future,” admitted Mr. Hill. “We have done considerable testing and work with these triggers, but have not found a satisfactory one. Good single selective triggers can, of course, be made, but they are very expensive and there must be an adequate call for them. We do offer a single non-selective trigger, but the bulk of our guns are made with the conventional double trigger. With a bit of experience, most shooters find that the double triggers are at least as fast as the single selective trigger, and the mechanical system of the double trigger is faultless. Nothing can go wrong with them under normal use.”

“Are you going to manufacture trap and skeet guns at long last?” “No, we will not make these sporting guns,” Mr. Hill stated. “We don’t have them in England and we are well content to make, what you call, field guns. Making fine doubles is an art, and our aim is to satisfy the demand that exists in the U.S. for fine (Continued on page 52)

MARKSMEN IN RESERVE

By LT. COL. FRANK F. RATHBUN

**"COMMAND EMPHASIS" AND ORGANIZATION
MAKES MARKSMEN IN ARMY RESERVE**



Above: Maj. Gen. W. J. Sutton stands right of National Matches Team trophy, flanked by its winners, the Fifth Army Bolt Rifle Team. Upper right: SSgt. Maurice G. Baum was first pistol champion, also shared team pistol trophy. Right: SP5 D. A. Knoop headed smallbore shooters.



FOR THE SECOND YEAR in a row, rifle and pistol marksmen from the U.S. Army Reserve scored more points than any other Reserve component at the National Matches at Camp Perry, Ohio. They even gave active duty competitors from the Army, Navy, Marine Corps, and Air Force a close run for the medals.

Army Reservists have not always fared so well, and since they are civilian soldiers with full-time jobs and families—not to mention regular unit training—to take care of, there is a lesson to learn from the program that has put them on target.

Perhaps the leading factor contributing to their success is something the Army likes to call "command emphasis." Reduced to simple language, it means that the pressure comes from the top down, that the "Old Man" at every

command level believes in something and sees to it that his enthusiasm gets rubbed off on those people who work directly under him.

In the Army Reserve the command emphasis begins with its chief, Maj. Gen. W. J. Sutton. A Distinguished Rifle Marksman with two legs on his Distinguished Pistol Shot Badge, General Sutton is convinced that rifle marksmanship training is a "must" for every soldier.

"It is my personal view," he said recently, "that every soldier, regardless of his job, should first be taught to fire the rifle well. Afterwards, if they are to fire other weapons, they should also become highly qualified with the weapon they use."

General Sutton is also a firm believer in match competition. "As both participant and observer," he said, "I look

on matches not only as an end in themselves, but as a means to a much greater end—good, all round soldiering. Excellence breeds excellence, and if you want to pull a unit's marksmanship up to a higher level, sprinkle a few good shooters through their ranks."

Acting under that philosophy, General Sutton, in 1964, brought a new emphasis on marksmanship training to the Army Reserve. Each Army corps headquarters was encouraged to appoint a marksmanship coordinator and to launch a publicity program encouraging broader participation by Army Reservists in competitive rifle and pistol matches.

In that same year, General Sutton instituted two new awards for his riflemen; for the best individual Army Reserve marksman and for the highest scoring Army (Continued on page 61)

A Power-Packing Pistol:

THE .454 MAGNUM

By WILLIAM E. CALDER

IF YOU ARE a handgun hunter, and man enough to try it, you can now pack more than five tons of punch in the powerful single actions made by Dick Casull, gunsmith and self-taught metallurgist of Salt Lake City, Utah. Yes, the handgunner can now command big game rifle performance and deliver one ton strikes at each squeeze of the trigger of one of these super magnums.

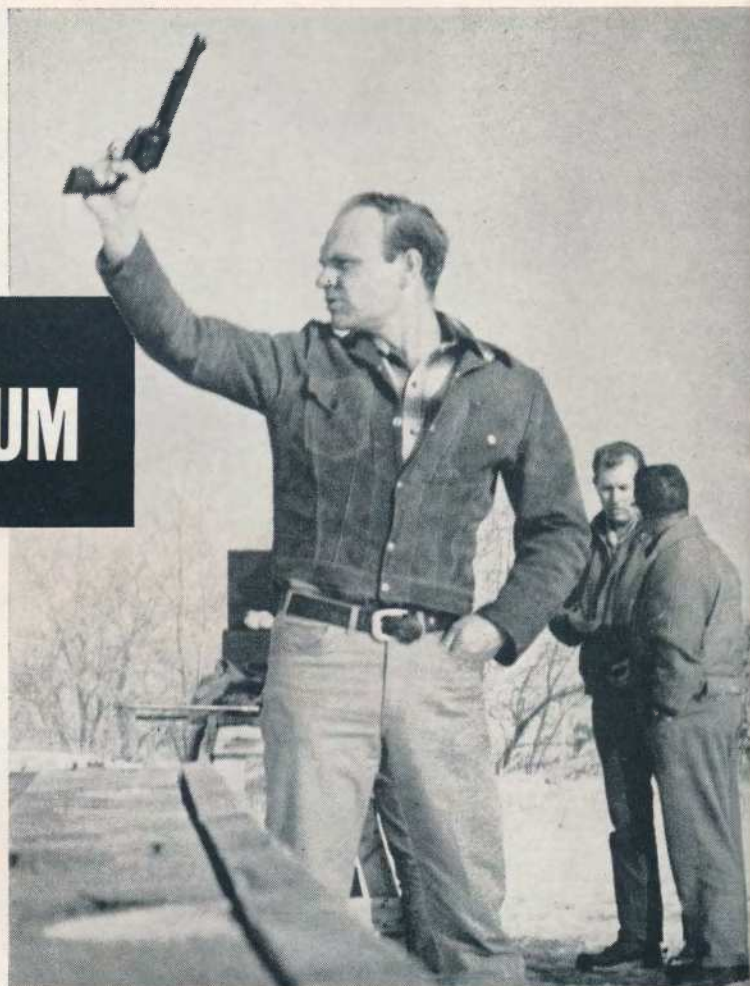
The sheer power of Dick's guns, and the authority they put into a hunter's fist are nearly impossible to imagine—until you shoot one!

Dick has made some revealing tests to prove the game-stopping power of his revolvers. On one occasion, a 1500 pound steer, on the way to the butcher, was made available to Casull for .454 Magnum evaluation. Taking a chance on some meat loss, the doomed steer was struck directly in the shoulder by a cast, 300 grain wheelweight slug, which passed completely through the thick body. The kill was instantaneous, and examination of the carcass disclosed that the heavy .454 slug had broken both heavy shoulder bones on each side of the huge torso, then continued its flight with energy to spare. Under hunting conditions in the field, .454 Magnums have been used on five deer, each harvested as a one-shot kill.

To further prove .454 Magnum capabilities, Casull plans a complete airborne expedition to collect all large North American big game, up to and including Kodiak and Polar bear in Alaska. It is hoped that films of this expedition will promote better public understanding of powerful revolvers as big game sporting arms.

Casull and his associates have no doubt that .454 Magnums will perform magnificently in the field on the largest of animals. This seems adequately supported by several experiments in which the .454 has clearly emerged as an exceedingly capable arm. Metal penetration tests show awesome possibilities for these revolvers. The guns will put homemade lead slugs through $\frac{9}{32}$ " of boiler plate. They also pass completely through a wooden 4" x 4" after punching neat holes in $\frac{1}{4}$ " thick steel!

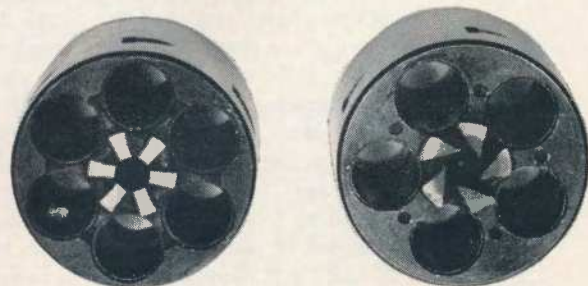
Chronograph readings back up these velocity indications and show without doubt that Casull's handguns have speed



Dick Casull's confidence in and familiarity with his big magnum are shown by his relaxation at full recoil.



Top strap on Ruger Blackhawk conversion.



Five shot conversion cylinder for Ruger Blackhawk, compared with one from a .44.

to spare. These guns spit 230 gr. slugs from their 7½" tubes at 2200 fps, and casually flip 300 grainers at 1710 fps. With 265 grain bullets, the velocities achieved with standard barrel lengths are about 2000 fps. The muzzle energy developed by Casull's 265 grain loads are nearly equal to those developed by a .30-06 rifle shooting 230 grain slugs. But these velocities are attained only at the expense of high pressure. They generate up to 60,000 psi revolver chamber pressures.

To achieve the terrific structural strengths required to safely contain these pressures, Dick selects 4130 and 4140 chrome-moly steel for his cylinders and frames, then processes these components by exotic hardening methods, including carefully controlled stages of alternate heating and thermal bleeding until the parts reach high Rockwell hardness numbers and become masses of quality spring steel.

Dick paced back and forth with long, lithe strides and sketched the history of .454 Magnum development from its beginning in 1953, when he achieved 1550 fps from 250 grain slugs. That velocity represented better ballistics than those initially claimed for factory loaded .44 Magnums, and was accomplished prior to commercial production of guns in that caliber.

"We determined, early in our work, that the whole secret of success with high velocity handgun loads lay in achieving higher and higher chamber pressures," he said.

"A fully practical, high-pressure handgun is represented by my handmade prototype .454 Magnum. This gun was completely fabricated from raw stock; even the lockwork was handmade. The gun uses all coil springs except for

the mainspring. There are only two screws in the action. We put a pin in the frame for a trigger pivot instead of the third screw Colt guns use, and never had trouble with it shooting loose.

"We have tested this gun with a case full of Bullseye, resulting in extensive damage to the brass, causing the head of the casing to flow into and around the cylinder ratchet. The cylinder was jammed so tightly that we had to remove it with a mallet, but subsequent examination disclosed no damage whatsoever to the revolver itself. Since that test, this gun has fired 25,000 rounds of full .454 Magnum loads without malfunction or bore erosion.

"Right now we are doing .454 Magnum conversions of the Ruger Super Blackhawks. No other handgun has proven as successful for this purpose; we will not modify anything else to this caliber.

"We plan to go into full-scale production of .454 Magnums if demand warrants. Our conversions, and the production guns we want to manufacture, will all be five-shooters. This is necessary to provide cylinder wall thicknesses equal to the stresses set up by our hot loads. We provide recesses between each chamber and the hammers of our guns can be rested in them without danger. A hunter can carry a .454 Magnum five-shooter with a full cylinder load at all times without danger. Thus the cartridge capacity of our guns is quite equal to that of a six-shooter carried with the hammer on an empty chamber."

Dick invited me to participate in a demonstration of .454 Magnum capabilities and accuracy at the Salt Lake City police range, along with (Continued on page 64)



Dick Casull's conversion of a Ruger Super Blackhawk (top), with a standard .44 Magnum Ruger. The ejector rod housing is soldered to flat of barrel. Heavy recoil hasn't shaken one loose yet.



Pull!

BY DICK MILLER

THERE ARE TWO JOBS that I wouldn't want. One is that of a tax collector, and the other is the job of state handicap chairman for the Amateur Trapshooting Association. I'm not trying to equate the generally unpleasant subject of taxes with the great old sport of trapshooting, but it does seem that administering the rules for both create some king-size headaches for those who have that responsibility.

These remarks are prompted by a visit I had last week with one of our dedicated, sincere, hard-working, and often maligned state handicap chairmen. He had just been chewed out by a shooter who had been given another yard for the 1966 season. As the conversation progressed, the chairman pulled the man's card from his file (making sure that I couldn't see the name of the shooter involved).

The story on the card was very clear. By every rule that is known to trapshooting, the man had at least another yard coming. His handicap average was well over the figure for an automatic yard, his 16-yard average, taken alone, would have given him a yard, his scores in non-registered shooting events at greater yardage were consistently better than those on file for his assigned yardage. If the rules of trapshooting had not very carefully and without question spelled out another yard, and the decision been based solely on the man's shooting ability, the answer would still have been at least a yard.

The shooter in question was somewhat in the same position I found myself with respect to income taxes, the year following transition from running a retail gun store to that of a salaried individual. Taxes prior to this year, had simply been a check written in the amount prescribed by my accountant every three months. After the first salaried year in many years, the figures were shown to me for that year. After the smoke had quit coming from my ears, and my eyes were once more able to focus, and I had regained the use of my vocal chords, I yelled "foul" at the top of my lungs. On rechecking every deduction and all the arithmetic, the rules said I owed about six hundred bucks more than I had kicked in. There wasn't any argument. By the rules, I owed six hundred more dollars, and I paid it.

Our shooter was in the same spot. After all the rules and arithmetic was checked, he had a yard coming. There was no basis for argument. I'm not saying that the rules for setting handicap yardages are perfect, any more that I would say that the rules for collecting taxes are perfect. There are a

number of suggestions made annually for changing our handicapping rules; there are also a few million suggestions made for changing our existing tax structure.

Both sets of rules probably have flaws, but as matters stand, they are the rules, and both sets have done a pretty fair job of managing the affairs of affected persons. We have all heard of a few people who manage to evade tax laws for a time, or on occasion. We also know of some who seem to have taken advantage of loopholes in the ATA handicapping system. But neither activity seems to be successful for very long.

I'll concede that by very careful planning, a shooter might hold down his ATA yardage for a year or more. But it also seems that whatever he might gain is a very short-term advantage, and that the system will catch up with him in the end. I'm no tax expert, but it seems to me that this simile pretty accurately describes our taxing system.

If there is any weakness in the ATA rules, that sometimes produces headaches for the state chairman, it might stem from the old saying among shooters that it's awfully easy to get another yard, but very hard to have it taken off.

The rules for giving a shooter back a yard are as explicitly spelled out as those for adding a yard, and should be applied with equal readiness. In shooters' minds, at least, it seems that there are instances when the yard went on much faster than it came off. I should make it clear at this point that this observation does not apply to me. Every yard that was added to my card was done so by the book, and I didn't have the ghost of an argument. By the same token, when I developed a galloping flinch, and my scores took a corresponding nose dive, the mails brought me a new card with a yard taken off; and it was done without my knowledge or request. Of course, I would have been better satisfied if I had been allowed to sit on top of the traphouse, and my scores indicated that I probably wouldn't have beaten anyone if I had been allowed to stand in front of the traphouse instead of behind it. But, the fact remains that my yardage was reduced when I fell upon adversity as quickly and as surely as when I was hitting enough targets to warrant additional yardage.

I've also had tax refunds when the rules called for them, and I didn't have to yelp at the tax collector to get them, either. So, my original premise that the rules for tax liability and yardage assignment are very similar seems reasonably valid.

So, my fellow trapshooters, if your new card moves you farther from your work, read the rules before you take aim at your state chairman. If he is the efficient and fair guardian of the rules that you want him to be, you will get a yard if you earned it. If your yardage is reduced, accept my sympathy and congratulations, and be thankful for small favors.

Since this column has touched on the rules for one of our domestic clay target sports, it is appropriate here to acknowledge a very fine and informative letter from Mr. Michael Tipa, Director of Shotgun Activities for the National Rifle Association of America (NRA). Mr. Tipa's letter was prompted by my remarks in my August column concerning international clay target shooting in the United States, and the roles played by various organizations that are concerned with this form of clay target shooting, including the NRA.

With the letter were a number of informative booklets, rule books, and field layouts that would be very interesting and helpful to anyone having an interest in these games. The material also included a letter mailed to all shooting clubs that makes clear the role of NRA in these clay target games, and which clearly answers some of the questions that prompted Pull! readers to inquire why NRA was involved in clay target activities.

I would suggest that interested persons write Mr. Tipa at NRA headquarters, 1600 Rhode Island Avenue, N. W., Washington D. C., 20036, for these materials.

• • •

Dom Lupo of Martinez, California topped all entries in a recent PITA registered event at the Martinez, California Gun Club, breaking 239 of his 250 targets. Dan Bacaher of Walnut Grove topped AA class with 99; Jay Rogers from Berkeley showed the way in Class A with 100 straight; Class B went to Martin Weiss of Vallejo for his 99 breaks; Louis Canziani from across the bay in San Francisco led Class C with a 97; and Robert Herike of Fremont took the Class D trophy with a 94.

Richard Long, from Fremont, topped the Class A doubles contingent with 49x50, and Pleasanton's Andy Casella copped B class for his 47 breaks. Bob Herike became a double winner when he added the Class C doubles trophy to his Class D 16 yard effort, also with a 47 score. It doesn't seem to make any difference to Herike whether there is one target or two in the air; his doubles score was 47, and singles score 94.

Perry Austin grabbed the handicap trophy with a 97, and Jean Valento fired a 91 to take the ladies trophy. She also was a double winner, by virtue of her high ladies 16 yard score of 94. Norman Nicolai was high junior in 16-yard competition with 94, and Ron Jiannini showed a lot of promise in the junior ranks with his fine winning 97 in the handicap race.

All the way across the country from Martinez, shooters at the Atlantic City Gun Club were treated to a marathon shoot-off on the first day of a three day shoot, when Frank Little of Endicott, N. Y. had to break 500 straight targets in a shoot-off to beat James Stine of Elizabethtown, Pa. in a 100 target program.



PRAIRIE CHICKENS MAKE A COMEBACK

(Continued from page 33)

touched it. It looked so good that I could easily imagine chickens bursting out of it in all directions, as they had out of comparable cover during my North Dakota boyhood. But unlike those days, when one could expect a covey to flush every 200 yards or so, we found no comparable bonanzas here. Instead, we had to walk and drive miles for every covey we found.

In adequate habitat, predation and hunting seldom disturb the supply of chickens from one season to the next. But, in common with all members of the grouse clan, they cycle in periods of abundance and scarcity, generally ranging from eight to ten years between peaks of plenty. Experience has proven that closing the hunting seasons during the intervening years of ebb populations has no discernible effect on the following peak years. Reducing bag limits and shortening the seasons helps a bit but it has no long-term effect on how plentiful the birds become during the ensuing years of building back to peak populations.

North Dakota is a prime example of closed seasons having no discernible effect in bringing back chickens, though that State once had them in uncountable millions. North Dakotans haven't had a chicken season for some 25 years, yet the birds' population hasn't rebounded significantly despite such long protection. This is a case of very limited habitat, which keeps the birds constantly in fragmentary populations.

Richard and I found our first chickens on that superb sod habitat. And there I collected my first specimen of the species of the past 37 years. For me that was an historic bird. Now that we had prime habitat located I knew there was no further urgency to our search. It would be merely a matter of leg-work to find and flush the birds and grass a fair share of them.

I like hunts like that. Where you know game is there if you're just willing to devote enough time and energy to find it. In fact, I much prefer hunting that is hunting, with a flushing flock here, and another an hour later or a mile farther along. I've no particular appetite to find birds so plentiful that every bit of likely cover explodes with game. Under such conditions the hunting day ends too soon.

So, we ambled along, flushed birds and occasionally shot some, and filled in the time with photography. It was a calm day, the birds held tight, and most of our shots were at short range.

But the next morning, with the boys along again, was a far different story. A stout and icy wind blew off the Missouri river impoundment to the east and it made the birds restless and wild. But we were there shortly after daybreak, while chickens were still feeding, so we could mark down their flushes and then follow up family flocks. At times the six of us were strung out in a raggedy skirmish line that was a half-mile long as each hunter worked out the bits of cover which most appealed to him. By mid-morning, we had a fine bag of chickens, far better than I had hoped for.

The first day, with short shots in order,

Richard and I had used Federal Champion trap loads; No. 8 shot in his 20 gauge Ithaca double, and 7½'s in my 12 gauge Ithaca pump. But it took only one look at the wild-flushing chickens of the second morning, some of them leaving exposed dawn feeding premises while we were still nearly 200 yards away, for us to reach for stouter long-range loads. Richard went to 1½ ounce loads of 7½ shot for his 20 and I matched that with 1¼ ounce loads of No. 6's.

This choice gave Richard a pellet advantage of 395 of the 7½'s to 280 of my 6's, though it's still a matter of which hunter puts his patterns most skillfully on game. The antimony-hardened pellets of these Federal Hi-power loads, which naturally resist deformation in the barrel and are further protected from it by cup-and-cushion plastic wads, reached way out there and dropped chickens as if they'd been poleaxed. They provided the right prescription for these birds, which seldom run much, but can hide like magicians when crippled and need to be killed cleanly for ready retrievers.

All in all, it was a highly memorable trip, highlighted by renewing acquaintance with an historic game species which only a small percentage of today's sportsmen know and hunt. Maybe my 37 years of waiting had sharpened my appreciation of the birds when we finally located them. But I really think that their contrast against any other upland

game I'd hunted during that interval made the hunt so enjoyable. And, of course, the company and the country helped.

At any rate, my cup was overflowing when Richard and I took off for home. On a bed of ice in my Coleman cooler rode a dozen skinned and gutted chickens, our full two-day possession limits. All that remained to us now was to sample today's version of the game which hunters of the early 1900's used to slay by the actual wagonload. And if they ate as tastily as I remembered from my earliest hunting days, we'd probably be back to try for another limit or two before the end of October brought the season's end.

In 1964, five states opened season on prairie chickens: Kansas, Nebraska, New Mexico, Oklahoma, and South Dakota. Yes, the prairie chicken is staging a comeback over a large part of their previous haunts. These fast flyers were the major game birds of my boyhood, sometimes more abundant than any pheasants I've ever seen, and I, for one, welcome them back, and hope they'll stay and prosper.



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THE FIFTH RAM

(Continued from page 25)

had hunted sheep in the northwestern states, but had never gotten one, although he had shot much other more common game. In the Yukon, he wanted a ram, but he also yearned for moose, grizzly, and perhaps a caribou. He downed a fair moose the eighth day out, and later bagged an excellent ram. The grizzly and the caribou, however, eluded him.

But things were not going well on this trip. We were delayed getting away from our Canol road base camp for two days. Then we wasted several days at a camp on Fox Creek, from which no worthwhile sheep were seen, and then moved to an outlying base camp at Belle Lake; a most beautiful spot, and in good sheep country.

While out for only my second day alone with Curly, his horse attempted to leap a ditch; its back feet went into a grass-hidden hole, and the animal went over sideways, downhill, with the guide underneath! Curly tumbled into a depression just larger than a man's body, and when the horse came down on top, only the narrowness of the hole saved his life.

I was off my horse immediately; but even more quickly, the fallen mount was up and away from the injured man, whose foot I had seen catch momentarily in stirrup and twist wickedly before pulling free. Kneeling to examine and assist my guide, I noted on each side of his head, deep imprints of iron shod hoofs, which barely missed crushing his skull!

It was many hours later that I finally succeeded in getting the suffering outfitter back to camp, where it was decided that Johnnie Curly's brother who wrangled for us, would leave in the morning to arrange for a helicopter, in Whitehorse.

The following day, Lawrence and Jack, along with guides Billy Hall and Willie Frazer, packed off for a planned week of hunting from fly-camp. About an hour out of camp, the boys stopped to glass from a promontory called Moose-horn Lookout, where

Billy located five rams on a high, granite, sawtooth ridge, about two miles to the northwest. After looking them over through a scope, Jack decided none had horns in the record class, and since Lawrence was less choosy, suggested Billy take the other hunter and go after them while Willie and he continued to fly-camp.

It was after dark of that same miserably wet and foggy eve when Billy and Lawrence, who had just shot his first sheep, arrived at camp with an excellent 40 inch Fannin ram.

Their climb had been long and tedious, surmounting a steep bluff, to get into a position from which Lawrence could knock over the best of the group with steeply downhill, 250 yard shot from his .338 Winchester.

Next day, Billy went back for the horns and cape. Meanwhile, Lawrence and I took a two hour ride to what we named Mackinaw Lake, in which we caught sufficient Mackinaw Lake trout to feed the whole camp for several days.

It was decided a move was necessary to get us into unmolested sheep ranges. Billy would lead the party to Thomas Creek Camp, a day's pack further into the mountains. All would go except the cook, who would stay to take care of Curly and await arrival of the helicopter which was expected the next day, weather permitting. The cook was to pack panniers with grub for a week, as we planned to stay until Jack and I got rams, or time ran out.

A skiff of snow had powdered the higher slopes by morning, when the group got under way in clearing weather, along with five packhorses to carry grub, camp equipment, and duffle. About an hour out of camp, an airborne motor alerted us and the expected helicopter met our interested gaze. Watching it disappear beyond the horizon a little later, all of us breathed easier to know that Curly was on his way and Johnny would be back to care for camp.

From our Thomas Creek fly-camp, Billy

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and Jack hunted relentlessly on a jagged hogback to the northwest. Meanwhile Lawrence, who was now full of grizzly dreams, hunted in the opposite direction with Willie and myself.

About mid-morning, while all were glassing for rams, I located what appeared to be fair sized animal parked high on a limestone ledge; perhaps two miles distance, and near the head of a wide sweeping canyon. Later, as we drew closer to the ram, along with another, before unseen, I felt that neither had horns large enough to suit me.

On the third day of our fly trip, Jack scoped some rams, including one nice head, from the windswept top of a rocky ridge over a mile from the sleeping beauties. Jack said later, "In making our stalk we didn't realize there was a deep canyon between us and the sheep, which we couldn't cross. This forced us to go halfway back down, and around, before we could get to the ridge beyond which the rams lay. Then they spotted us at once and took off before I could line up that Weatherby, so I had to take a running shot at 250 to 300 yards, and I was lucky to bring one down. We think he was the best one."

Meanwhile, I had been hunting with Lawrence and Willie, and although rams were seen twice, none were really worth taking. Therefore, the next morning, we struck camp and headed for that formidable broken and torturous chain of rock, up and along which Billy and Jack had been laboring. The year before, our old guide had made a short scout trip to the opposite side of this mountain chain, and until then no one had believed horses could be gotten across. He had seen lots of game of all kinds and felt I might get a good ram there in the short time remaining to hunt.

We made it up the near side fairly well but beyond what Billy named Phillips Pass, the going was steep and treacherous, with shale and loose slide rock all the way down. Mid-morning of the day following our rough climb over Phillips Pass found me alone at last with the old sheep hunter, and now well up on a granite type series of ridges and hollows, which he had glassed but not climbed the previous year. We had been scaling the rugged terrain for some hours, noting sheep tracks on every side. One full curl ram had been examined, while possibly fifty ewes, lambs, and smaller rams were seen on scattered, green sheep pastures, in pockets along the mountain top.

Stopping on a rocky hummock to glass, the old Indian located two rams, just under full curl, on a sawtooth rim perhaps a mile up the hogback. Studying the entire area with that invaluable sheep hunting tool, my 20-power Bausch & Lomb scope, I detected a very slight movement. Concentrating my attention, I eventually discerned horns and part of the heads of two rams, scarcely visible as they lay sunning themselves on an outcropping ledge. More important, they looked to me the best I had seen on the trip, so I called my companion's attention to them.

Close examination with the scope revealed that here, at last, were rams worth taking, with one a little the better than the other. Billy took considerable time in carefully planning our stalk, to prevent a tricky, shifting crosswind spoiling the fun, as well as to make sure the rams would be in shooting range when we reached a spot he selected.

At first, it was not bad going, but soon the distance narrowed, and we were forced to attempt a precarious negotiation of a radically up-ended, boulder-pocked incline which stood in the way of a chosen position from which I hoped I could get a shot.

Reaching the crest, Billy slowly eased high enough for a look, but was instantly sighted by a ram which leaped to its feet and alerted the others! Ducking, he urgently motioned me to crawl up beside him. Quickly complying. I took in the thrilling sight of several five or six year old non-trophy rams. But standing dangerously out on an irregular table-sized slab, stood two others with curls beyond the eye! Subconsciously, I saw them to be perfect specimens of true Fannin coloration, having the Dall's white face and neck almost to the shoulder, then blue-black hair on sides and saddle, typical of Stone sheep. The stately ram on further side stood with head and shoulders just a little in front of nearest sheep. Both were staring alertly at the pinnacle high above them.

Billy hissed in my ear, "Take one on far side." So I aimed down carefully but rapidly into the shoulder of the beauty which stood poised on outer edge of the slab, then squeezed off a prayerful shot.

As my trophy tumbled out of sight into space, his companion leaped from the finger of rock where they had lain, onto the main ridge and bounded away after the others, which were of course long gone!

With some difficulty, the Indian and I crawled down over the ridge, then moved to a spot where we could see the side of the cliff down which our ram had fallen. What a sight met our eyes! The sheep had luckily caught in a nitch, about fifty yards below where he had stood, then lodged head down, with legs dangling over an abyss that dropped almost straight off, 1,000 to 1,500 feet. Eventually, by considerable cautious effort, we eased our way toward this nitch and finally succeeded in getting the ram onto a slightly less dangerous spot, where we could work on him.

The next morning, over a cup of coffee, the boys examined the horns and skin we took for a life sized mount of this beautiful two-toned sheep. However, all agreed it was tireless old Billy who deserved the cheers for probably being the first Canadian guide ever to lead three separate hunters to worthwhile rams on a single hunt.

One morning later, when we were half way back toward the Canol Road base camp, Billy took me out in a rainstorm so severe the others refused to go, in hopes of finding a mountain (Osborne) caribou. Luckily that peerless old Indian located several bulls huddled together in the rain, which came down in sheets.

While making the stalk, the rain desisted, and the animals began to feed; then moved behind a hill. Finally, however, I was able to ascertain that one had a double shovel which I wanted, (biologists claim this happens only once in 3,000 males). A clean shot brought him down.

But that was an anti-climax compared to the inward satisfaction gained from ending nine years effort and 50,000 miles of travel necessary to become one of perhaps less than a half dozen hunters who have ever added "The Fifth Ram" to a previously completed slam.



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CUSTOM CHECKERING

(Continued from page 26)

different from a design on a stock—especially if either the pattern or the stock is somewhat unusual. A paper sketch simply cannot look as good as a pattern that "looks right" on the stock. Each stock and pattern presents its own problems. Here is how I laid out and checkered the stock of a pre-1965 Model 70 in .243 Winchester.

In determining a pattern for this stock I considered that the stock is a hybrid, designed for varmint hunting and informal benchrest shooting. The rather narrow fore-end is flat bottomed, which makes it easy to handle on a sandbag and helps avoid canting in off-hand shooting. The grip is very full, the rollover comb higher than on most hunting rifles, both characteristic of a bench gun. This strange combination of stock features needed to be de-emphasized in order to give the gun a more attractive and streamlined appearance.

I wanted graceful checkering with curving borders to smooth the unusual lines. A carved border, fleur-de-lis, or other embellishments would have been out of harmony with the stock design. A racy, pointed pattern would have emphasized its basic lack of smoothness.

After studying similar stocks, I decided to lay out a pattern that would wrap completely around the fore-end to make its three-sided shape appear fuller. The wrist design needed to extend onto the flat of the butt to detract from its fullness and to "flow" the fatness into the relatively thin butt.

Although I am not an expert, I felt capable of attempting this. The final design was more difficult than I had anticipated, but by working very cautiously and spending many hours, the final results were well worth the additional effort.

The first step in laying out the pattern was to blend the curves in the most difficult area—the left side of the wrist where the pistol grip and cheekpiece lines go their separate way. A border following either line exclusively will usually clash with the other.

With a crayon I followed the curve along the underside of the cheekpiece, arching it down to meet a line parallel to the bottom of the stock. The tail of the pattern was left fairly wide to allow room to checker to the tip without runovers. These first lines were changed several times before a pleasing and suitable design was achieved. A rag moist-

ened with lighter fluid made erasures simple. As a precaution against slips of the hand, enough room was left around all border lines to use a border tool, if necessary, to hide future mistakes.

A template of the tip curve was made by pressing against the wax markings and trimming to shape. This was used to match similar tails on the opposite side and on the fore-end. The front of the border points to the end of the receiver; it follows the template curve away from the action, then drops downward, approximately matching the curve of the pistol grip.

If possible, every border line should harmonize with the stock curves in the immediate area and flow from prominent features of the stock or action. There should be a reason for every bend, otherwise the design will look no better than a standard pattern from a supply house.

After experimenting with places on the grip where the pattern could be divided into the two sides, I decided to join the sides at the center line of the stock, thus checkering completely around the wrist. Checkering at the top runs up against the tang and the overall effect is good. There was nothing difficult about the top, but the underside of the grip gave me some trouble.

That area and the point where the full grip makes a sharp reverse curve into the flat of the stock caused much misery and won't be repeated on future stocks. I would recommend an unchecked narrow break, common on many extensive checkering jobs, at any reverse curve. With painstaking care the work can be done properly, but it isn't worth the extra trouble.

After the pattern on the left side of the grip appeared satisfactory, a complete pattern was made, as with the template, and the layout was duplicated on the right side.

The fore-end was easy to lay out. A line was drawn parallel to the top of the stock, curved down to a line straight across the bottom, shortly behind the front sling swivel. The tail curve template was used at the rear with the curve pointing toward the front of the receiver.

Once the complete pattern had been roughly drawn with crayon I put the stock aside for a couple of days to be sure that it would still appeal to me later on.

When I was satisfied that the design suited

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the stock, I used a soft lead pencil to sketch a symmetrical line in the rough crayon marks. This was then traced with a stylus to etch the finish, allowing the marks to be wiped from the stock. Any errors or changes in the scribing will be covered by the checkering or final touch-up finish.

A swivel-knife, normally used to cut designs into leather, was used to make the first border cuts. This light cut makes a perfect guide for a bent needle file or single line cutter. With the borders finished, the remainder of the job is routine checkering. First lay out the angle of the diamonds. I prefer a 30° angle, sharper than most use, and 18 line checkering. This combination gives the appearance of finer lines while speeding up the operation.

A plastic 60-30 triangle or a plastic or cardboard diamond about nine inches long and three inches across at the widest point can be used. It should be scribed to indicate a center line. It will be used in laying off the first critical cuts and for keeping lines absolutely straight.

The diamonds should point with the length of the stock, so align the center line and etch the lines with a stylus. Extend each with the side of the diamond pattern or with a flexible plastic ruler. The first lines should be near the center of the pattern and should be one of the longer cuts.

To keep the diamonds pointing with the stock on both sides and the bottom of a wrap-around fore-end pattern, each line must be turned slightly as it breaks across the edge of the stock. This is the only time that any line should be allowed to curve or change direction. If carefully done, this change in angle is not noticeable, but must be constantly checked with the triangle to be sure the lines are straight and intersecting at the proper angle.

Once the base lines are scribed, deepen them with a bent needle file to insure a firm guide for the spacing tool. This tool is not a knife; it is a rasp and should be used as such, making light cuts with a sawing motion, gradually deepening the line until it can be used as guide for the next line. Continue working across the pattern until it is filled, making sure that each line is run to the end.

The tiniest flaw will be magnified by subsequent lines. Any slip should be straightened with the bent needle file and a straight-

edge immediately. When all lines in one direction are cut, start at the other base line and begin forming the diamonds. For the first time you will have an idea of the final look of the stock. If you have made the initial cuts too deep, each cut will give you trouble as you attempt crossing cuts. The final word of caution here is not to attempt to bring the diamonds to a point with the spacing tool.

This final operation is done with a pointing-up tool or bent needle file. Chase each line without attempting to cut too deep on any one pass. After going across all lines of the pattern a couple of times, some of the diamonds will be coming to a point. Flat spots will be indicated by the amount of finish gloss at the top of each diamond.

Concentrate on areas where the cuts are more shallow until all diamonds are pointed. Cutting too deep will cause unevenness in the surface. Lines running in each direction should be equally deep. A magnifying glass or jeweler's loupe should be used, particularly during the final work.

Unless you have nerves of steel there will probably be some runovers in your design. Some of these might have been eliminated by cutting the border to full depth prior to using the spacing tool, allowing the border to act as a partial brake.

Tiny runovers may be sanded with an emery board. Worse runovers may be cleared up by sanding and recheckering the adjoining area, but this is a major chore and it is difficult to finish the sanded area without filling the checkering with finish. The last resort is to use a bordering tool to hide the mistakes.

When you complete pointing up each section of the checkering, apply stock finish with a toothbrush. Dip the tips of the brushes into the finish and briskly work it into the wood, brushing with the lines in both directions. Do not allow the finish to build up and cover the job with one coat. A second coat will gum the checkering.

Checkering is not difficult, but it requires patience. Your first job should be a simple pattern. A more difficult project such as this one should be tackled only after several easier designs have been checkered.

When you have become reasonably skilled and you have a custom stock that deserves the time and effort of a custom pattern, give it a try. You'll be glad you did.



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GOVERNMENT SALE OF ELK MEAT

(Continued from page 21)

supplement their meat diets. The meat from the additional laboratory specimens will also go to the Indians."

Secretary Udall added that even if all 1,800 animals had been turned over to Indian tribes, the tribal requests would still have exceeded the reduction program's capability of providing elk meat. It would appear that the Department of the Interior wanted to leave the impression that the Indians, though not responsible for the slaughter, were going to be the beneficiaries.

Perhaps the most self-serving document attempting to justify this killing was a copy of the minutes of the Interagency Cooperative Elk Management meeting, held May 22, 1963. The minutes pointed out that the Park Service was commended for "achieving their goal against almost insurmountable obstacles." (The report must have been referring to the Congress, as members from the area affected were reported strongly opposed to the procedures being followed.)

In this report was another interesting quote from the then Superintendent of the Crow Indian Reservation, Mr. Otto K. Weaver, who, the report said, "spoke for the Crow Tribe." Mr. Weaver stated:

"The Crow made good use of the meat, hide, and antlers from the direct reduction program and refuted newspaper accounts of damaged meat, saying that out of the 147 animals, only one-quarter were (sic) ruined by gunshot."

During the 1962-63 period, according to the same report, 404 elk were shot within the boundaries of Yellowstone Park. From the press releases and letters quoted above, one may believe that it was well handled, that only one-quarter of one animal was ruined by gunshot, and that the American Indian was the beneficiary of what "had to be done."

Sometimes it takes quite a while to get the whole story. In May 1965, almost two years later, it was learned that 8,770 pounds of elk and buffalo were sold to a private con-

cern for tankage at 2 1/2 cents per pound. The meat was spoiled, and could not be consumed by humans. It was to be made into dog food, pig's feed and fertilizer. Of the 8,770 pounds, 1,160 were buffalo meat, since buffalo were also part of a reduction program. Reports indicate that the meat had been field dressed after the kill and was dirty and contaminated from hair, and so forth. Further checking with the Interior Department indicates that this was part of the slaughter of 1963 and had been in cold storage, frozen if you will, for about 2 years.

How can anyone reconcile these appalling facts with the claims made by those who tried to say this meat was being used and consumed by needy Indian tribes?

After the May, 1965, figures were disclosed to the public, Congressman Battin took to the floor of the House of Congress. Calling for a congressional investigation, he charged:

"It is my belief that the American people can stand the truth and Government officials should give only factual information . . .

"Since this information has come into my hands and since the game animals have been spoiled and have to be sold for fertilizer, I am asking the subcommittee which held the original hearings to make an inquiry into this shameful situation."

Every sportsman, hunter, and conservationist should interest himself in this investigation. It will be interesting to see if the Government will actually give the American people factual information, or if this matter, too, will be hidden from the public to save face for some Washington officials. It will also be interesting to see what effect, if any, this will have on future plans to decrease the size of the Yellowstone herd.

This much of the matter is at last out in the open; it is only a question now of whether there will be continued waste this year.

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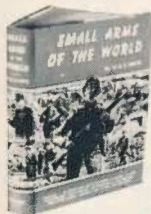
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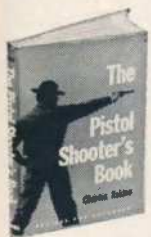


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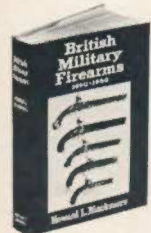


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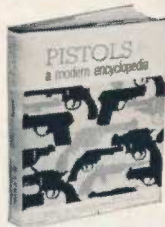
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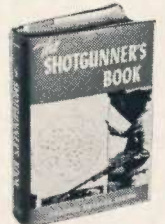


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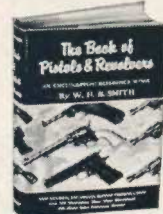
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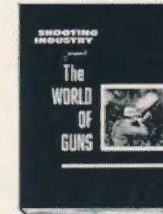
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PROVED GUILTY BY BALLISTICS

(Continued from page 31)

roadside thugs. A bullet was removed from Mrs. Johnson's body and held as evidence. A Spanish Mauser .32 automatic pistol was found on Hadley, and a partially filled box of .32 caliber Remington U. M. C. shells was found in his suitcase in the Johnson car.

Caroline Frauenfelder, now Mrs. Lott, was acting court stenographer at the preliminary hearing and also recorded the testimony at the coroner's inquest held in Yuma. She also took a deposition from the hospitalized Mr. Johnson.

"Hadley," said Mrs. Lott, "was certainly not a person that one would connect with such a ghastly crime." He was about 36, Mrs. Lott added, above medium height, attractive, intelligent, with a pleasing personality.

Mr. A. J. Eddy was a practicing lawyer, assisting and aiding the county attorney in the preparation of criminal cases. Mr. Eddy, despite his advancing years, is still active in his law practice in Yuma, where he is highly respected as a lawyer and citizen.

Mr. Eddy and a number of other experimenters had been working with comparison tests with different bullets and guns, photographing the rifling markings of each test. He was fairly certain that a bullet fired from a gun carried distinctive markings, much the same as fingerprints; that each gun, or a hundred gun barrels of the same make, caliber, and manufacturer, made by the same rifling tool, would all leave different markings on the fired bullet.

Since the Yuma County Attorney had Hadley's gun, the bullet recovered from Mrs. Johnson's body, and the cartridges found in Hadley's bag, Mr. Eddy began making his tests in earnest. He had the help of a local portrait photographer, a Mr. Plumley. The lens was reversed on the large camera, so that big close-ups could be made of a bullet. The highly detailed photographic negative clearly and positively showed the rifling markings on each bullet. The process was

difficult and tedious, lighting and alignment presenting problems.

As he had long suspected, Mr. Eddy confirmed the fact that each make of gun had its own peculiarities, which left distinctive rifling markings on the bullet. There were such considerations as right or left twist, twist turn in inches, and angle of the bullet.

At this time it was discovered that the Hadley crime had been committed in Pima County, not Yuma as was first supposed. The case was therefore transferred to Tucson for trial. Because of his exhaustive testing and experimenting with ballistics, Mr. Eddy went with the case to Tucson as witness for the prosecution.

At the trial, the prosecution attempted to convince the jury that the motive for the crime was attempted robbery of the Johnson's and the theft of their car. But since neither of these crimes had taken place—probably because Hadley was suddenly left footloose, after Johnson had gunned the car—these charges were of questionable value.

Johnson's testimony was extremely damaging to the prosecution. He swore that he did not see Hadley fire the shots that wounded him and killed his wife. In fact, he admitted that he had never seen Hadley's gun. Since the shots had come from the rear and since there was no one except the three of them in the car, he had naturally assumed that Hadley had fired the gun.

Hadley stuck to his original story, giving the same testimony as at the preliminary hearing and before the coroner's jury. The Johnson car had been jumped by three highwaymen, wearing boots and big hats, possibly cowpunchers, who had ambushed the Johnson car from behind and began shooting. He testified that he drew his own gun and fired back at the thugs, driving them off, but insisted that it was the shots from the outlaws' guns that had killed Mrs. Johnson and wounded her husband.

An Arizona jury couldn't accept this story. It was highly improbable that cowpunchers or western badmen, would be carrying a cheap .32 caliber automatic pistol. A Colt .45 or .44 caliber was the standard handgun in those days for pistoleros. Mr. Eddy testified that he had made comparison tests with Hadley's gun, using the same brand of ammunition as was found in Hadley's suitcase; that the results of these tests were photographed, that five other makes of bullets of the same caliber had been fired through Hadley's pistol, and in no case did the land and groove markings match up with the markings of the death bullet, except the U. M. C. Remington brand, found in Hadley's bag.

Mr. Eddy went into extensive testimony, involving other tests he had made with four different .32 caliber automatics—a Colt, Savage, Remington, and a German Mauser, plus the Spanish Mauser that had killed Mrs. Johnson—with different makes of ammunition. He attempted to prove to the jury that each pistol and each particular brand of ammunition left its own distinctive characteristic markings on the bullets.

The bullet fired from Hadley's gun and that recovered from Mrs. Johnson's body had identical rifling marks. This was damaging evidence, and the pictures of these comparison tests were shown to the jurors. It was quite evident that some of them were skeptical of this new-fangled business, considering it some kind of prosecution trick to railroad the defendant.

But no objections were made by the defense attorneys to this 38 page testimony. When Mr. Eddy was cross-examined, the defense seemed to sense that there was some substance to Eddy's bullet tests. At long last, the defense moved that Eddy's testimony be stricken on the grounds that the witness, by his own evidence—Eddy said he didn't claim to be an expert—had failed to qualify as such.

The judge overruled this defense move. He took the position that it was unnecessary for the witness to qualify as an 'expert' since Eddy was merely showing his finds, arrived at through exhaustive research and experi-

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mentation. For want of a better term, the judge designated the testimony as 'semi-expert,' holding witness competent to testify.

After many hours of deliberation, the jury was hung hopelessly, and was dismissed by the court. Hadley's clean-cut appearance, intelligence and pleasant personality had, no doubt, influenced the jury somewhat. During the trial, spectators were openly sympathetic to him, as were some members of the jury. A retrial was ordered.

While preparing for the retrial, the prosecution found startling new evidence that hit Hadley with a jolt. It was discovered that Hadley had escaped from a Texas prison where he was serving a life sentence for the killing of a peace officer.

Hadley freely admitted that this was partially true. He had been convicted of killing an officer in a small Texas town, and had been serving a life sentence, but that the whole thing was a frame-up. He had not killed this man, the prison authorities had given him a trustee rating, and had allowed him to attend his mother's funeral, without an accompanying guard; that he had not returned to the prison, because he was not guilty and that he was serving a life sentence unjustly.

This frank and open admission took the sharp edge from the prosecution's new charge, leaving the case just about where it was before.

The jurors, as in the first trial, were allowed to examine Eddy's photographic evidence, using a small miner's microscope, supplied by Mr. Eddy. It was becoming increasingly evident that the jurors, as well as Judge Pattee, who had presided at the first trial, were considerably more impressed now by what Melvin Belli today calls "demonstrative evidence." Anything the jurors could see with their own eyes, they could understand. The defense, however, apparently still considered these bullet identification tests as a fraud. The defense decided to play their big hole card to prove their contention, hoping to knock Eddy's testimony and photographic evidence into a cocked hat.

On cross-examination, the defense attorney suddenly produced a fired bullet, handed it to Mr. Eddy, and asked the witness bluntly if this bullet had been fired from the Hadley pistol. Eddy did not know that defense attorneys had secured a .32 caliber automatic Spanish Mauser, identical to Hadley's gun, fired several test shots, using Remington U. M. C. ammunition, into heavy cotton so as not to deface the bullet.

Here the defense erred. Secure in their assumption that they had Eddy far out on a limb, which Eddy would saw off himself, they were more than willing to take a gamble. Their mistake was this: When they put the crucial question to Eddy, they automatically qualified him as an expert witness, since they were asking for an opinion, and opinions can only be asked from and expressed by a qualified expert in whatever line the witness is testifying.

This, says Mr. Eddy, was the dramatic highlight of the whole trial. The courtroom was tense, awaiting Eddy's reply, since it was now recognized that the case would stand or fall on his answer. The county attorney, George Darnell, never wholly sold on the validity of Eddy's tests and photographs, was fearful that Mr. Eddy would give the wrong answer, and he could see his case

blowing sky high. The defense, smugly certain they were on solid ground, could see their client walking out free.

Eddy looked at the bullet with his small microscope, then asked permission to move over to the window to examine the bullet under the brighter light. Permission was granted. When he walked back to the witness chair, all eyes searching his face for the answer.

"Is this, or is this not, a bullet fired from the Hadley gun?" the defense attorney repeated.

"No, sir," said Eddy calmly. "But it *was* fired from a gun with the same twist."

Hadley was convicted of murder in the first degree.

The verdict was appealed to the only appellate court in Arizona at that time, the Arizona Supreme Court. Briefs were filed by defense lawyers and the attorney general. After deliberating the case the Supreme Court rendered a historic and momentous decision. Unanimously, the court upheld the verdict of the lower court, thus recognizing and establishing ballistics evidence as valid and admissible. This was the first time any State Supreme Court in the U. S. had done so.

Hadley was hanged.

Incidentally, the wrecked car that he had presumably left on the desert was never found since it existed only in Hadley's imagination.

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INSTINCT SHOOTING

(Continued from page 23)

Pete demonstrating, I decided to try the system once more.

In Instinct Shooting, three basic rules are stressed. First of all, ignore the sights of the gun. If your gun has sights, and they are removable, take 'em off! Secondly, the key-words are "two-eyed concentration." When you bring the gun to your shoulder, don't duck your head—the same rule is of course taught by trap and skeet coaches. Cheek your gun, but ignore the sights and the gun muzzle completely. Your eyes are now aligned about one inch above the gun barrel. When you see the target—and this maybe the stationary one on the Indoor Range or the plastic break-away target of the Instinct Shooting Trap unit—concentrate your vision on the upper part of the target. When you have achieved this two-eyed concentration, you'll find that your gun barrel points right at the spot on which your eyes are fastened. The moment you have accomplished this—and this is the third and perhaps the most important point in Instinct Shooting—pull the trigger. The BB, thanks to your two-eyed visual concentration, can actually be seen in flight, and you can see it hit the target.

Every shooter who has ever fired at a moving target, knows that he must concentrate his complete attention on the target. Then, when the target "looks right" through the sights, the nervous system activates the muscular system and the trigger is pulled or squeezed. In Instinct Shooting, you don't merely shoot at the target, but at a pre-selected spot on the target, and in all cases, you shoot at the top of the target. Thus, your center of concentration is not only your aiming spot but is also the spot the BB will hit when you have pulled the trigger.

Bill and Jimmy had a natural tendency to close their nonshooting or weak eye. Pete overcame this by asking the boys to lay down the BB guns and watch washers and rubber discs that he tossed in the air. He soon managed to have the boys watch the targets with both eyes, and when they picked up their BB guns, it had become second nature for them.

By pre-selecting a spot on the target, and with the help of the two-eyed concentration system that Pete teaches, it became progressively easier for the boys not only to hit the flying targets, but to see the BB's make contact with the target.

"Pete, what about leading the bird?" I asked after the boys had left. "I have used Instinct Shooting on quail," Pete grinned, "and it works exactly the same way on live targets as it does on plastic or clay targets."

With the Instinct Shooting system, lead is not required, yet I believe that a close and intensive study would probably show that by picking the top of the target as aiming spot, you get a built-in lead. On a sharply climbing pheasant, for instance, by picking the bird's head above the beak as aiming spot, I believe that the center of the shot pattern would actually hit your aiming spot. Instinct Shooting experts claim that anyone with the proper training can hit a flying target providing two-eyed concentration is applied and the target is within the gun's range.

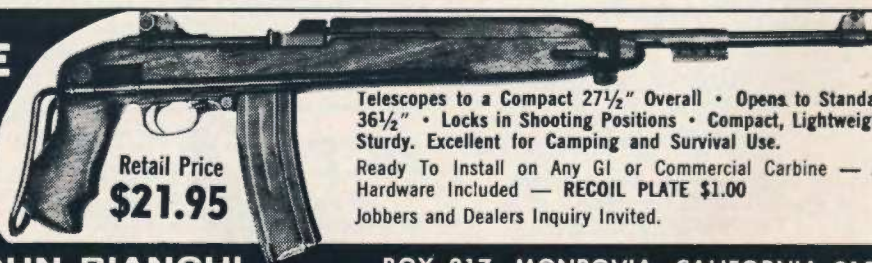
If lead is built-in, what about swing? Again, Pete pointed out that visual concentration with both eyes will tend to take care of the problem of swing, and also of the follow-through system used by many shot-gunners. In order to verify this, I took some claybirds and marked a spot near the bird's edge with red paint. When thrown from a handtrap, and when both eyes were concentrated on the red spot, it was easy to break the birds. If, however, I merely pulled the trigger of my shotgun when I saw the whole bird or only an edge on a going-away bird, I missed. This small experiment, though by no means conclusive, tends to confirm my idea that holding on the top of the targets represents nothing more or less than a built-in lead, and that this built-in lead accounted for the fact that I managed to knock 24 out of 25 of Pete's plastic birds out of the sky with a BB gun that afternoon. Switching to a Model 12 in 20 gauge, improved cylinder, did not alter my ability to hit the targets—providing I used the Instinct Shooting method. The moment my power of concentration waned, or when I tried to revert to old shotgun habits, I missed the targets.

Although you can learn the basics of Instinct Shooting in a relatively short time, you have to continue practicing two-eyed concentration. As in any other acquired skill, practice makes perfect, and the more practice you get in any shooting sport, the more proficient you will become. After Pete's demonstration I was impressed enough with the value of Instinct Shooting to order one of his traps. And, this afternoon, I am going out in the backyard and get in some Instinct Shooting practice. Pheasant season opens soon and I want to improve on last year's average—which was none too outstanding.

If you want to try your hand at Instinct Shooting, remember to keep both eyes open, pick a spot on the target—right on top of it—and you are bound to hit the bird, be it plastic, clay or feathered.

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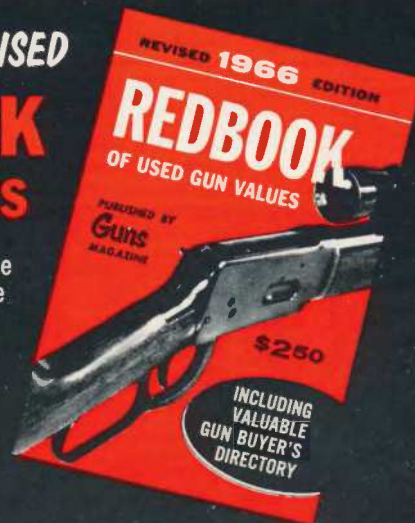
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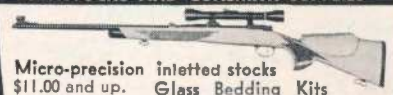
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MODEL 700 WEBLEY & SCOTT

(Continued from page 36)

"Will you at least chrome line the bores?"
"I think that this bore plating is vastly over-rated. We can't see any sense in it. We are of course aware that a number of gun makers do chrome line their bores, but if the barrel steel is of high quality and the gun gets reasonable care in the approved manner, then there is no reason to line the bore."

"If Webley & Scott decides to import guns into the States, what service facilities will you be able to offer the American shooter?"
"Our guns are now being handled by Abercrombie & Fitch and a few distributors such as Sanderson of Portage, Wisconsin. We are going to have one major distributor a year hence, and he'll see to it that special service centers are set up throughout the country. Each center will have ample parts in stock, but the men who'll be working on the repairs will receive special service training from us. Thus, there will be no delay if a gun should require service. Our service department is never very busy, and although your shooting conditions vary greatly from ours, I don't anticipate any service problems."

British gun makers tenaciously stick to their time-honored concepts and traditions. A total of 80 machine operations go into every action of a Model 700 gun. These 80 steps are followed by 40 hand operations and a total of 50 hours of labor goes into each Model 700, plus about 56 hours of hand labor. The gussied-up Model 701 requires a total of 86 hours of hand labor before the last inspector permits the finished gun to leave the floor of the plant.

All but a few stocks are made from selected blanks of seasoned walnut. Checkering is done by hand, and on the two test guns—both Models 700—checkering ran 22 lines to the inch. All stocks are oil finished by hand, and in the British tradition, no butt plate or heel plate is found on standard grade guns; a few Webley guns, such as the .410 bolt-action shotgun, do come with a butt plate. The side-by-side shotguns also have a silver initial plate inletted into the stock (on the Model 701, this is a gold inset), and the fore-ends are typically English—slim and elegant. Fore-end fastening is accomplished by means of the Anson push-down rod system, and fore-end locking is positive.

Mechanically, a close inspection with a magnifying glass revealed no tool marks, and the guns were extremely well fitted—both

steel to steel, and steel to wood. The sliding safety, which as mentioned before is automatic, has a slightly enlarged knob that makes it possible to handle the gun with heavy gloves. The safety and the automatic ejectors functioned flawlessly throughout my protracted tests. The ejector raises the unfired shell for easy removal and ejects the fired hull, including battered and reloaded hulls.

The engraving, said to be of standard grade by Webley & Scott, is very well done and is far better than one would normally consider as "standard," and the case hardening of the action gives the gun a great deal of appeal. The trigger guard is amply large to accommodate the gloved finger, and the single shiny metal bead at the muzzle is perfectly adequate, as my clay bird scores indicated. Unfortunately, both guns had to be returned before hunting season opened and thus my tests were limited to trap, some skeet shooting, and my own variation of Crazy Quail. The rib is of the smooth and concave style, but flat file cut ribs, recoil pads, and sling swivels can be furnished as extras.

The left barrel is bored "choke," and the pattern with 7's is a real full choke one; the right barrel, also verified on the patterning board, is bored improved cylinder. Other choke arrangements can be had on special order. The imported guns have 2 1/4 inch chambers, and you have your choice of 25, 26, 28, and 30 inch barrels. All of the guns are nitro proved, and the proof marks on the 16 ga. gun, for instance, indicate proofing for 3 1/4 tons per square inch which is more than ample for all suitable U.S. factory ammo. The standard British gauges, that is 12, 16, and 20, are being supplied. Val Forgett, who heads up the Service Armament Co., and who is now the sole U.S. importer for Webley & Scott firearms and air guns, somehow persuaded Webley & Scott management to make a 28 gauge gun and a 20 gauge gun chambered for the 3 inch magnum shell. Val tells me that the 28 gauge gun tips the scale at just 5 1/2 pounds—welcome news indeed for the aficionados of the 28!

The doubles are of the box lock type, are hammerless, have solid tumblers, and have the conventional top lever. Here are the standard stock dimensions: Length of pull 14 5/8"; drop at comb 1 1/2"; drop at heel 2 1/2". Special stock dimensions are of

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course custom work and can be ordered. A single, non-selective trigger at extra cost is also available. The average weight of the 12 ga. gun with 28 inch barrels is about 6 lbs. 8 oz., the 16 gauge gun with the same length barrels weighs approximately 6 lbs. 4 oz.

The Model 701 is the best Webley & Scott shotgun made. The stock is finely figured walnut, checkering is extra fine, as is the engraving. The customer has a choice of barrel lengths, chokes, gauges, and stock measurements. The Model 702 is somewhat less ornate, but is essentially a twin of the Model 701. In all of these models you can get either the straight stock or the half pistol hand stock. When I began my tests, the straight stock felt somewhat strange in my hands, but after the first few shots, I was no longer aware of the straight stock and when I changed to a pistolgrip-stocked shotgun, I found that I just as easily switched to such a stock. Similarly, the double triggers are easily mastered, perhaps even a bit easier than the single, selective trigger.

The Webley handguns will not be imported, and the famed Webley Match Invader single-shot target gun will probably not be produced any more after 1965. Val Forgett will import—or rather is importing now—the bolt-action .410 Webley Sportsman. The Model 100 Webley is a single barrel, semi-hammerless gun with an ejector, is available as 12 or 16 ga. gun with a variety of barrel lengths and a full choke tube is standard. A number of other single-shot or bolt-action shotguns are in the Webley product lineup, but among the other Webley products worth noting especially are the leather as well as the canvas gun cases. The Webley Seat Sticks, those walking sticks that convert into a seat when pushed into the ground, are highly popular items in Europe and are now beginning to find favor at field trials. These are among the many Webley items that Val Forgett is importing.

Webley air guns are relatively little known in the States. The air pistol has an international reputation among the air gun initiates for an almost unbelievable degree

of accuracy. Easily recognized by its peculiar silhouette, each gun must group within one inch at 30 feet from a rest before it leaves the factory. The Webley air rifles and pistols will also be imported.

The Webley & Scott shotguns are typical examples of the great British gunmakers art and tradition. When Mr. Hill offered us the use of a Model 700 for tests, he knew that we would find nothing to criticize, but his primary purpose of having one of his guns go through tests was to see how an average American shooter would take to the features of the 700. How good is the Webley & Scott 700? It's tops. How does it handle—despite double triggers and straight stock? Excellently. The 700 is an elegantly simple shotgun.

Maybe it was my imagination that gave me the impression that I shot better with those Webley & Scott guns than with my own smoothbores, but it is darned hard to quarrel with the cold facts of my statistical averages—on clays those guns did exceptionally well and I can claim little credit for that!

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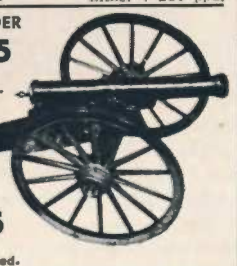
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BALLISTIC DROP CHART allows shooter to record information for a variety of loads, and is designed to be applied to the floor plate or stock of the rifle for quick reference. It's free for the asking from: Redfield Gun Sight Co., Dept. G-2, 1325 S. Clarkson, Denver, Colo. 80210.



DIGGER HATS are the hats worn by Australian fighting men for over half a century, and feature a brass clip that keeps one brim pointed skyward. The $3\frac{1}{2}$ " brim is wide enough to keep the sun out of your eyes and the rain from your neck, and an adjustable leather strap will cinch it to your chin. It's made of pure felt and can be found in the free catalog from: Eddie Bauer, Dept. G-2, 417 E. Pine, Seattle, Wash.

SHOPPING

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JOHN LACEY'S carved eagles, waterfowl, and horses are ideal to decorate the gun room. All models can be had either finished or unfinished at considerable savings. Finished items are decorated in 23 carat gold

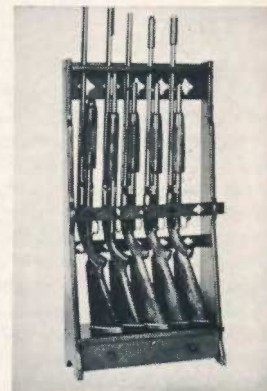


leaf, and all orders are subject to a ten day money-back guarantee. Prices start at \$10.00 unfinished. Write to Lacey for his free catalog at: Dept. G-2, Danbury-Norwalk Rd., Route 7, Ridgefield, Conn. 06877.

A NEW LINE of "High-Power" pellet guns have been introduced by Daisy. The guns feature two models that shoot 177 BB's and pellets and two models that shoot .22 pellets.



From top to bottom are Model 250, .22 rifle, \$27.95; Model 230, .22 rifle, \$23.95; Model 220, .177 rifle, \$17.95; and Model 160, .177 pellet or B.B., \$12.95. Free catalog from Daisy Mfg. Co., Dept. G-2, Rogers, Ark.



KLEIN'S 5-GUN Floor Rack has two locking bars and a full width locking drawer. Patented four leaf clover design crossbar rigidly stores single, double, or over-under shotguns and rifles. Felt padded base protects gun stocks, and the hand-rubbed walnut finish comes from selected hardwoods. It's $22\frac{1}{2}$ " wide, $44\frac{1}{2}$ " high, $8\frac{1}{2}$ " deep, and shipping weight is $14\frac{1}{2}$ lbs. Postpaid \$25.38, write for: Order No. C20-2451, Dept. G-2, Klein's, 227 W. Washington, Chicago, Ill.



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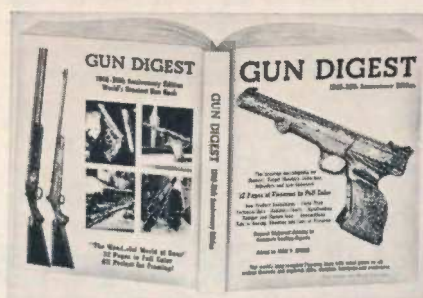
ARMALITE AR-7 Survival rifles can be taken down in a matter of seconds for maximum compactness, and they now come with optional interchangeable custom stock of choice walnut that has a sculptured design with roll-over cheek piece. The complete rifle sells for \$64.50, but you can get the custom stock for \$26.80 separately. See them at your dealer.



ONE-STEP Nitro Solvent cleans, prevents rust, and lubricates in a single operation. It has been tested in Alaska at temperatures as low as -48° , and its inventor is currently in working with the Army Ordnance Testing Dept. You can order bottles at prices starting at \$1.30 from: Frye Industries, Box 1244, Dept. G-2, Laguna Beach, Calif.



HARRY LAWSON CO. offers the Cochise Thumbhole and Apache Sporter gunstocks this year. The thumbhole model was designed exclusively for scoped rifles. Both stocks are available in American Walnut, Maple, Wild Cherry, Sycamore, Hawaiian Mango, and Hawaiian Coa. For more information send 25¢ for complete catalog to: H. Lawson Co., Dept. G-2, 3328 N. Richey Blvd., Tucson, Ariz.



1966 GUN DIGEST is the biggest ever, with 416 pages, and includes a 32-page four-color section of contemporary, historical, and custom guns, each page of which can be removed and framed. Articles this year cover every imaginable gun subject, and the encyclopedic catalog section is a boon to those in the market for new equipment. There's an Arms Library listing gun books, a listing of Arms Associations around the globe, a Directory of the Arms Trade, and a glossary of the latest gun terminology. The Digest is available at sports, department stores, and book dealers, or can be had postpaid for \$4.95 from Gun Digest Association, Dept. G-2, 4540 W. Madison, Chicago, Ill.

BALSCOPE TWENTY: Bausch and Lomb's new 20X coated lens telescope is excellent for general observation, target spotting (fits standard pistol cases), and big game. It focuses by a single turn of the eyepiece, and



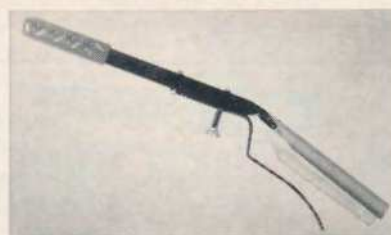
has a built-in tripod lug. Body is die-cast aluminum, length $15\frac{3}{4}$ ", weight 22 oz. Objective is 40 mm, and field of view is $75'$ at 1000 yds. By mail, it's \$16.97 from Gander Mountain, Inc., Dept. G-2, Box 248, Wilmot, Wisc.

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much the same fashion as a conventional hand trap. Any steel beverage can may be inserted into the Can-Go's cradle-like holder and thrown with a smooth sidearm motion. Target speed, height, and angle can be easily varied to suit the individual. Can-Go sells for \$5.95. Additional information is available from: Pacific Gunsight Co., Dept. G-2, Box 4495, Lincoln, Nebr. 68504.

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GYROJET ROCKET GUNS

(Continued from page 29)

weapon effective at ranges as long as 30 feet, they feel that 25 feet is a good practical range. "The problem is water clarity," Mainhardt explains. "In most water it is virtually impossible to see beyond 25 feet."

The underwater launchers are of two types — each about 18 inches long. One is a six-shot repeater, the other a single shot. Both are made of aluminum to achieve natural buoyancy. Loaded, the repeater weighs about 1½ pounds dry, the single shot weighs less than one pound.

The repeater carries back to a long-discharged firearms system, a pepperbox utilizing a revolving firing pin. Both underwater launchers use conventional rear-acting strikers to fire the rockets.

Successful operation is claimed in water temperatures as low as 28 degrees, as high as 90, and in depths as great as 50 feet. While present-day conventional underwater guns have their maximum power and velocity at the muzzle, the rockets achieve it at burn-out—some eight feet away. By the time the Lancejet is two feet from the muzzle, however, the company claims it will pierce ¾" plywood. Both of the rocket guns can be reloaded under water.

Although developed and tested, MBA waited until the end of October before deciding to go ahead with commercial production of the single-shot model.

It was a question of establishing knowledge that sufficient demand existed," says Bob Mainhardt. "Although I feel that this is an ideal protective device for anyone who has to work underwater in areas where dangerous fish are present."

Two types of the single-shot model are being scheduled; a cased model supplied with six Lancejets, and a "throwaway" version. The latter would sell for about \$10 including rocket, and is primarily for those who have only an occasional need for such protection. The more elaborate, reloadable model would be priced considerably higher, of course. Both of these models should be available by the time you read this.

"But we are looking ahead," declares MBA's president. "I can visualize turning out a single-shot throw-away model for as little as \$5 complete with rocket. That as-

sumes, naturally, that we would attain some volume. You probably didn't know that we started our original rocket-launcher research with the idea of turning out a \$2 throwaway weapon."

And ideas are what make the MBA layout click. They've tested literally thousands of rocket combinations in sizes ranging from little more than the thickness of a pencil lead up to a couple of inches in diameter. Jet nozzles with as many as nine jets have been tested along with a multiplicity of nozzle angles, types of material, fuel charges, lengths, ogives, and the like.

Weird-appearing guns and technical gear are almost a commonplace at MBA. A single-shot .44 Magnum Ruger has been fitted with a rocket barrel and a calibrating device which can provide a wide range of hammer-fall impacts to determine just how much is needed to detonate the primer with minimum disturbance to aim. A World War II flare pistol has been fitted with a dozen short 9 mm rocket tubes to fire a whole burst of rockets. A 12 gauge single-barrel shotgun has been altered into a 20 mm rocket launcher. This gun will put its 20 mm rocket through one inch of steel. The rocket has a burnout weight of 1½ oz., but attains a maximum velocity of 1,100 fps and a maximum energy of 1,900 ft./lbs. at burnout, some 100 feet from the muzzle.

John Feack, formerly MBA's sales manager, said of the 20 mm, "I held the buttplate to the point of my jaw and pulled the trigger. That's how much recoil there was. Would you do that if this gun was loaded with a regular 12 gauge shotgun shell?"

These larger rocket launchers, the 20 mm and up, could conceivably replace man-carried bazooka-type weapons. Classed as small cannon, the rockets fired could carry explosive warheads. Not only would they have the advantages of lighter weight and handier size than the bazookas, but the gyro rockets themselves would be lighter, thus increasing the ammo-carrying capacity of the individual soldier. It is presumed that they would have an equivalent or better range.

For the infantryman fighting in jungle terrain, the clip-loaded 13 mm six-shot rocket carbine might prove to be the most effective

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weapon. Because of its stability and 200,000 rpm spin rate, this rocket could bore through heavy vines, branches, and other obstacles.

In conventional sniping, the report of the sniper's rifle often reveals his hiding place. With the rocket, the first an enemy 100 yards away is going to hear is the report at burn-out. But with the standard 13 mm rocket, that's 45 feet away from where it was launched, and it could be made considerably more. Even should the shot miss, it would be a tough job trying to pinpoint from where the rocket was fired. It wouldn't do much good to shoot back at the place where the sound came from, as that wouldn't be the launching spot.

At night, of course, this advantage wouldn't hold true, since the rocket would leave a tell-tale trail of fire to reveal its approximate origin—if you happened to be looking in the right direction at the right time. Suppose that a GI had one of the multibarreled 9 mm rocket pistols, and he was trying to down a hidden sniper. The flight of rockets released from such a group of barrels would cover quite an area, increasing chances of a hit.

And there's a panic element, too. If the individual burnout times were altered slightly, the multi-barrel would sound like a dozen shots instead of one or two. Hardly a comforting sound for the enemy soldier on the receiving end, even if he escapes the first cluster.

Mainhardt explained the rocket's potential as a special police weapon. "You know," he said, "from time to time police are called on to use magnum weapons against auto engine blocks. It's fine if they hit the block and crack it with the first shot, but most such targets are moving, and in crowded cities, a miss means you've got a powerful .357 or .44 Magnum bullet carrying for unknown distances, a threat to innocent people."

That danger, we thought, would also apply to the rocket. "But that's not necessarily true of a rocket," Mainhardt continued, in answer to our unspoken question. "We can load rockets with power enough to crack the block, yet should they miss, they would not travel over 200 feet from the point of discharge."

"How come?"

"It's not too difficult to do. We know that after a certain centrifugal speed is reached, the rocket disintegrates. We can load these gyrorockets to attain this disintegration speed at the desired distance—say 200 feet. It won't keep plowing on like a regular bullet."

That's fine, we countered, but how about an innocent bystander 200 feet away? Isn't

he going to be showered with steel shrapnel from the disintegrating rocket?

Mainhardt shrugged and grinned. "Well, you can't win 'em all, but I feel the odds are better with the rocket than with a magnum bullet flying wild for several hundred yards."

And he's probably right.

Meanwhile, MBA has been making improvements in the experimental carbines and pistols described in the earlier article (see GUNS, Dec., 1965).

The new Model B guns, both already in production, have moveable rear breech sections; top loading by stripper clip; adjustable sights; improved triggers, hammers and safeties.

Sole purpose of the new moveable breech is to facilitate loading, replacing the side gate. The carbine uses a three shot clip while the pistol uses one that holds six rockets.



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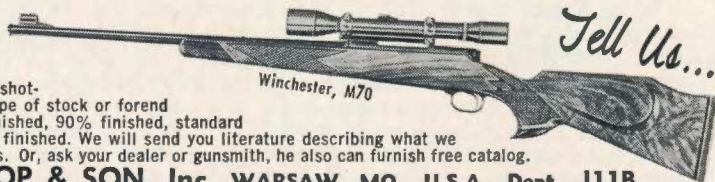
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Panel of Experts

Because of the heavy influx of questions, it has become necessary to limit the number of questions submitted in one letter to two. Your questions must be submitted on separate sheets of paper, must carry full name and address, and your Shooters Club of America membership number. If you are not a member of the Shooters Club of America, send a dollar bill with each question. Questions lacking either number or money cannot be answered. If you want a personal answer, enclose a stamped, self-addressed envelope for each question.

Sub-Machine Gun Ammo

I bought some surplus 9mm ammo. It is marked "For use in Sub-Machine gun." It was made by Winchester and there is no date. Is it safe to use in the S&W auto? Is the primer corrosive? It has purple lacquer on it—WRA Lot 22311.

Jerome J. Vavra
Minneapolis, Minn.

In my opinion all references to "corrosive" are relative. I stopped believing in Santa Claus half a century ago. It may be quite true that some primers are less corrosive than others, but if you like your guns, clean them! If the label says "for use in sub-machine guns"—respect it—and use it only in sub-machine guns.—S.B.

Discontinued Belgian

I have a semi-automatic pistol which I would like to have as much information about as is possible. It is an automatic,

blowback system, clip fed .38 or 9mm. Reassembles a Mauser, with the clip in front of the trigger housing. The following is found on the left side of the receiver: "Brevete SGDG" Further back: "Anciens Etablissements Pieper-Herstal-Liege, Bergmann-Patent." Where did this gun originate? How is it stripped down? What caliber is it? A .38 Auto will fire but will hang up periodically. What value?

Robert R. Lopez
Bakersfield, Calif.

The gun you describe was designed by Theodore Bergmann and patented in 1903. The Pieper organization in Belgium manufactured them, and the word "Bayard" is usually found on this product. Replacement parts are virtually non-existent and I do not advise that you risk losing any parts. Most likely it is chambered for the 9mm Bayard Long—not commercially produced in the U.S. In good condition, your gun is worth at least \$100.00 and will appreciate in value through the years.—S.B.

Davenport and Marble

I would like information on the following: 1) A single shot .32 S&W Long, lever operated rifle, marked on the barrel: W. H. Davenport Firearms Co., Norwich, Conn. Patented Dec. 15, 1891. 2) "Marble's Game Getter," including legal barrel lengths.

Steve Hoffman
San Diego, Calif.

Davenport Firearms was located at Norwich, Conn., and made single shot percussion and later metallic cartridge rifles (1855-1910). In 1894 they introduced the first automatic shell ejecting device ever to be used on a single shot breech-loading rifle.

Marble Arms of Gladstone, Mich. was

founded by W. L. Marble in 1898. The stock on the Game-getter is hinged to fold and can be removed. The upper barrel is rifled, and chambered for .22; lower barrel is chambered for .44 cal. CF, is not rifled, and can be used for shot-shell. No Game-getters are legal without the Federal \$5.00 Transfer Tax.—R.M.

Loading The 8x50

In your April issue there was an article on the 8x50 Steyr Mannlicher cartridge and reforming 7.62 Russian brass for this caliber. What is the velocity of these loads and what would be the effect of firing a 7.63 in the 8x50? Are all 7.62 cases Boxer primed?

N. J. Naeher
Kelso, Wash.

For the 8x50 SM expand 7.62 Russian brass for the Speer .321 bullet in 170 gr., which is probably the exact groove diameter of your rifle. Trim to 1.948". Some rims may require turning down the diameter a few thousandths. Load 38.0 grs. 3031 with CCI Magnum primers for 2150 fps. Firing forms cases perfectly, and the forming loads are satisfactory for normal use. I don't recommend firing 7.62 ammunition.—K.B.

S&W Conversion

Maybe you can clear up an argument I've been having with our local gunsmith. Since S&W parts are interchangeable, why can't a 1917 S&W .455, or .45 ACP, be fitted with a .44 Special cylinder and barrel? My gunsmith says nothing doing. What do you think?

A. P. Vaillancourt
Carlotia, Calif.

According to Smith and Wesson, it is not advisable to convert the old 1917 to a .44 Special due to the difference in the type of steel used in the older model.—P.T.H.

Robbins and Lawrence

I have a cap and ball rifle. The barrel is rifled and is about .48 caliber. The lock has Robbins & Lawrence U.S. on it. Also, Windsor V.T. 1850. It has a brass patch box and butt plate, on top of which is Co.K, Mass 46 U.S. No. 28. There is a three cornered bayonet also. Can you give me any history, value on this rifle?

Darvin Franklin
Wayland, Mich.

The firm of Robbins & Lawrence was founded in 1843. In 1845 they received a government contract for 10,000 Model 1841 rifles . . . and in 1848 an order for 15,000 more. These arms were marked on the lock-plate "Robbins & Lawrence US and Windsor, VT." They also made the Jennings rifles and pepperbox pistols, and in 1851 obtained a contract for the Enfield and Sharps rifles. You may write to the National Archives in

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Washington for records of the 46th Mass. Vol. Co. K to find out what battles they were in. Collectors value of your rifle in fine condition is about \$90.00.—R.M.

Light Load For .243

My two reloading handbooks, the Lyman and the Speer, list a 70 grain bullet as the lightest for my .243 Winchester. Is there a lighter one and is it possible to load a light load for any .243 bullet for small game, such as squirrels, so that not too much meat would be destroyed?

John M. Barnes
Warm Springs, Ga.

Light .243 bullets expand too fast for squirrels even at minimum velocity. Use Speer's 105 gr. Round Nose with 8.0 to 10.0 grs. Unique. Lo-V charges are rather critical for best accuracy, so work down and up a bit for your particular rifle, to obtain best accuracy. You'll get better accuracy by tilting the barrel up before firing, to position the charge near the primer.—K.B.

Colt .45 S.A.

About six months ago I bought a Colt .45 single action. It is nickel-plated and has a 5½ inch barrel. It is almost new, and I paid \$150 for it and a western fast draw holster. What is it worth?

Walter Raske
Chicago, Ill.

If your Colt S.A. is the old model (before Colt Mfg. Co. started them again a few years ago) and the condition is fine to better, it is well worth \$150. But if it is a modern Colt, that can be bought new at \$137.50 . . . the value of a used one to a dealer is only about half of that. Check your Colt to see if there are initials SA after the serial no. on the frame; if so, it's the new model. If still unsure, take it to a good gun shop to be checked out.—R.M.

Triumph

I have a 12 ga. double barreled shotgun for which I need a forearm (wood and metal), but I can't find the name of the maker. It has only one lettered marking on it, and that's the word "TRIUMPH"—on the left side of the frame. This is a 28" barrel. Do you know it?

Richard F. Hudella
So. St. Paul, Minn.

The only way you'll be able to find a forearm for your old Triumph is to take it to different gunsmiths and let them try to fit one to it. It's impossible to order one for it.—P.T.H.

History Search

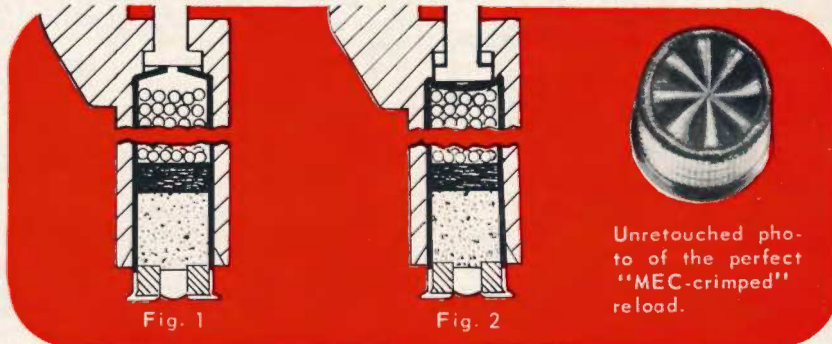
I recently obtained a cartridge revolver with leather holster that is evidently of German manufacture. It is overall 12¾ inches, barrel 186mm, bore 11mm, cylinder length 50.8mm, and seems to be chambered to take a cartridge of diameter 12.5mm with 15.5mm lip. It has matching serial numbers (116198) and the following markings: "GUSS-STAHLE" (on barrel), "L. Gasser

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What can you tell me about this gun? I am interested in using it for target work.

John Elmer Calvert, Jr.
Baltimore, Md.

The gun you describe seems to be the Model 1882 Austrian Cavalry Revolver, caliber 11.2 m/m Gasser. So far as I know, manufacture of this cartridge was discontinued about thirty years ago; cartridge dealers listed in GUNS' REDBOOK, however, may be able to supply you with a few cartridges—but whether they can or not, I would not suggest that you consider your gun suitable for target work. Not only would ammunition be a constant problem, but a gun as old as yours deserves peace and rest after all these years!
—S.B.

Powell Damascus

I have a very fine 16 gauge English double by William Powell & Son, Birmingham. I received a letter from Powell that says that the gun was supplied in August 1883. It has the very best Damascus barrels, No. 1 patent action and strikers, rebounding locks, and cost was 35 English pounds. What can you tell me about the value of this gun and Powell shotguns and rifles?

Charlie Sills
Palm Springs, Calif.

The Damascus barreled shotgun does not hold too much interest for the collector or the shooter; though many such as the Powell were fine in their day. Sometimes even the black powder load in your Damascus today would cause trouble, however—and this is the only type you can use at all. It's a fine representative collector's item, however. Its value should be around \$35.00 to \$50.00.—R.M.

Shot Loads

I have your letter where you state that you are experimenting with some new shotloads for revolvers. I am interested in the 38 Spec. load. Am wondering if you ever completed this, or if any wads, etc., are available for this. If so would appreciate address of company concerned.

Paul Brown
Apple Valley, Calif.

We developed much more efficient .38-357 shot loads by using a Hodgdon Self Lubricating (plastic) bullet jacket as an over powder wad, seated cup up. This gives a much better gas seal than any other wad, plus more case capacity. A good charge is 3.5 grains Bullseye, or adjust it a bit for your needs, with No. 10 shot and a .358 gas check, seated cup down. By far the best crimp die is made by Merwin Co., Box 414, Hurst, Texas. No other crimp works so well, and a die is not expensive.—K.B.

Treaty Breaker

I have recently come into possession of a "Gustloff-Werke, Wassenwerk-Suhl, Kal. .22 Lang Fur Buschen." On the right side of the receiver is "K.K. Wehrsportgewehr." Proof marks are German eagle with N underneath. Stock is stamped "Sad. NSDAP" in a circle, and is bushed for a rifle rack locking rod.

According to Wahl, this was a Mauser made by Gustloff for Mauser as a training rifle before WWII. Is it strong enough to be bored out to .222 or .224, do you think? Where could I get a replacement strap? What else can you tell me about this gun?

C. Eugene Douglas
Petaluma, Calif.

Your gun was made, most likely, between 1920 and 1932; unfortunately chicanery resulting from attempts to defeat the Versailles Treaty prevent a more accurate determination. Value would depend on condition and could reach \$85.00. Your finding an original sling is a matter of pure luck, and you should forget about rebarreling to "hi-powered" calibers—converting rim-fires to center-fire is expensive and rarely worth the effort.—S.B.

Colt .38 Auto.

Recently acquired a Colt .38 Auto. and would like to know its value. Left side of slide is marked: "Browning Patent" Colts Patent Firearms Co. Pat'd. April 20, 1897 Hartford Conn. U.S.A. Right side of slide is marked: Automatic Colt. Calibre .38 Rimless Smokeless. The chamber and harrel overall is 6", gun overall is 8". It has original blueing, wood grips, and chrome-plated magazine.

R. F. Dumesnil
Atherton, Calif.

The Colt that you have is known as the Model 1900, and is very rare. It has a collectors value from \$100.00 to \$150.00 depending on condition.—P.T.H.

British Carbine

I have just acquired a carbine of British make with characteristics of the following: 21" barrel length, markings under the barrel —25 889 < 25 /// JM H GUN BARREL CO—and the words TOWER BARNETT LONDON on right hand lock, JM BARNETT T. TURNER on the left hand lock. What can you tell me about this one?

Edward F. Guinazzo
Dorchester, Mass.

All British Military Percussion Arms up to 1855 were of standard length. The shortest carbine (other than the Pagets altered pattern percussion carbine of 16" barrel) is the Yeomanry Carbine, made for the Yeomanry Cavalry 1847-50. Its barrel length was 20". Both Barnett and Thomas Turner made arms and parts for the military under large contracts. I have seen many arms by each one as an individual maker, but not as a joint venture. The Yeomanry Carbine over-all length was three feet, caliber .653 smooth bore.—R.M.

Rebarreling

Would it be safe to rebarrel the 1914 Steyer or the large Rem. Rolling Block action in the .243 Winchester? What pressures are safe in these two actions?

John S. Anderson
Pueblo, Colo.

The Rem. would be fine rebarreled to the .243 Win., but I would not recommend rebarreling the 1914 Steyer.—P.T.H.



MARKSMEN IN RESERVE

(Continued from page 37)

Reserve rifle team at the National Matches. This past summer the General founded two similar awards at the National Matches for the best individual pistol marksman and the highest scoring pistol team from Army Reserve ranks.

To further promote interest in marksmanship, General Sutton and his staff joined hands with the National Rifle Association early last summer to sponsor a unique, worldwide shoot, called the U.S. Army Rifle and Pistol Postal Matches. Competition, limited to smallbore rifle and .22 caliber pistols, was conducted at many scattered points in the U.S., Germany, Puerto Rico, and Alaska from June 15 to September 15. Shooting was done according to match rules under the supervision of commissioned officers, and the targets mailed to NRA for scoring.

Because almost every locality has a small-bore range, shooters don't have to wait for opportunities to travel to a full-size range. Both marksmanship training and the zest for competition can be held at higher pitch in these "through the mails" contests.

General Sutton's enthusiasm has been reflected down through the command chain. The Continental Army Command (CONARC) went along with his suggestion on appointing marksmanship coordinators from each Corps. In the fall of 1964, a conference of these coordinators reviewed the objectives of its Army-wide competitive marksmanship program, and then sought suggestions as to how these might be achieved in the Army Reserve. Later in the conference, the duties of the Corps coordinators were spelled out. Some of the more important ones are quoted here because of the application they have to all marksmanship programs. They are:

Attending matches and planning ahead for next meet.

Keeping an eye open for new shooters and making sure they get good instruction from the beginning.

Keeping track of shooters who move and getting them in touch with a unit in new locations, so they will not be lost to the program.

Keeping in touch with personnel and activities in adjacent Corps and Army areas.

But perhaps the biggest contribution that CONARC has made to the Army Reserve marksmanship training is their "One Army" approach—that is, by treating all components

of the Army as equal partners in an important training mission.

Since Army Reserve units are scattered far and wide—some of them in cities and some in small towns—there is always a range problem. Where are we going to shoot? How are we going to get there?

Unit commanders and team captains, working in conjunction with Corps coordinators, do everything they can to make it possible for their rifle and pistol shooters to use and get to ranges operated by local clubs, police departments, or other branches of the military service. They also see to it that their men get the best guns available.

The final factor in the recent success of Army Reserve marksmen is the progressive match competition that CONARC has set up. Beginning down at U.S. Army Corps level, commanders of company to division size units conduct inter-unit matches to determine the best qualified service rifle and service pistol marksman in their units, so as to form teams for the next level of competition. Each Corps commander then holds an annual match to select competitors for the Army area matches. Outstanding competitors at these area matches are nominated to participate as individuals and as team shooters in the National Matches.

From these nominations, CONARC selects Army Reserve squad members and sends them to Camp Perry, where they are attached to the U.S. Army Marksmanship Training Unit for final pre-match training.

Army Reserve riflemen who enter service rifle competition are equipped with the match-modified M14 rifle. It is interesting to note that more than 10 per cent of Army Reservists who have the rifle as a primary weapon have been issued the M14. But the M1, which is rapidly replacing the carbine, is still the predominant weapon among Army Reserve riflemen. Special Forces units in the Reserve have been issued the new M16 rifle.

The formula for the upswing in the Army Reserve's match record is neither new nor startling; but it's sure-fire. It will work for any sort of organization, in or out of the military service. Here's the formula: Strong and well-directed emphasis from the top; a sensible plan and organization for training; progressive match competition; and—throughout all of these—a supervisory effort that is constantly on the lookout for new shooters while it is developing and encouraging those already on the range.

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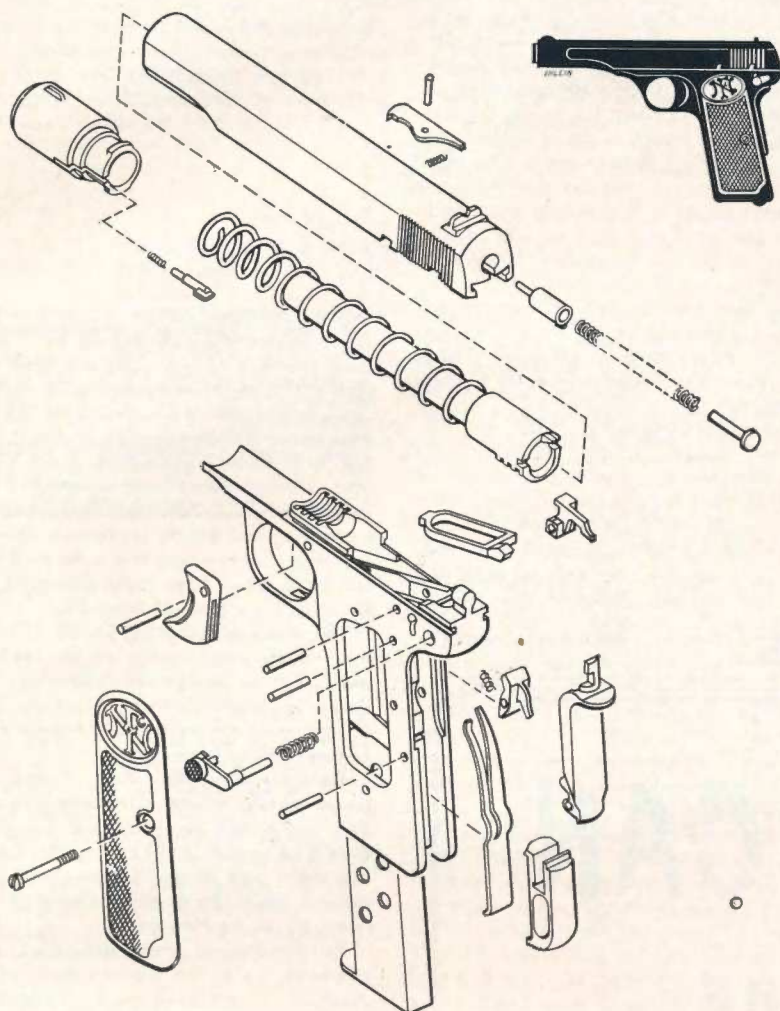
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AN INSIDE LOOK

AT THE MODEL 1922 BROWNING



By SHELLEY BRAVERMAN

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Generally, police favored the 7.65, the military favored the 9 mm. A lanyard ring was factory issue with many of the 9mm's after 1928. Guns made under German occupation during WW II were equipped with wooden grips.

At the moment of discharge, the barrel is restrained from turning by three contacts: the extractor, a breech stud, and a barrel extension—all of which fit into mating cuts; this design and superb workmanship results in very high accuracy.

In recoil, the long nose of the firing pin

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To take down: Remove magazine and clear chamber. 2) With slide forward, set thumb safety. 3) Push muzzle-bushing catch forward and turn and remove muzzle-bushing. Exercise care since catch and bushing are under spring pressure and parts may fly around and become lost. 4) Draw out recoil spring. 5) With slide locked back by safety catch, rotate barrel to unlock it from frame. 6) Hold slide firmly, release safety catch, ease slide and barrel off (forward) while taking care not to disturb firing pin complex.

It is noteworthy that of all the Browning automatic pistols, only the 1910/22 design was marketed with the recoil spring around the barrel; over a million were produced between 1912 and 1935, and many more were produced up to and including WW II.

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THE .454 MAGNUM

(Continued from page 39)

Kerm Eskelsen, his twelve year old son Kermit Eskelsen, Jr., and Ray Satterfield. At the range we were joined by soft-spoken Percy Clark, a Salt Lake City policeman.

I had read earlier accounts of firing the .454, and it seemed wise to somehow prepare myself for the terrific experience of firing these cannons. As a sort of warming up exercise, I ran a few rounds through a .44 Magnum Ruger Super Blackhawk. After all, at the time the earlier articles were written, the .454's had been equipped with long barrels or effective-looking muzzle-brakes. The gun Dick was preparing for firing had a 7½" tube and no brake whatsoever. It seemed possible that someone was going to get the hell kicked out of him! My earnest hope was that by using my little .44 maggie, it would be possible to outfumble the entire group, and let someone else to shoot that big gun first.

My carefully plotted fumble went awry almost immediately. Thumbing off another five fast rounds of .44 Magnum, I laid my little Super Blackhawk on the bench and turned around, still slightly numb from the repeated concussions and found Dick grinning expectantly as he offered me his prototype .454 Magnum.

"Here, Bill," he said. "It's all loaded up with five rounds of what will be our standard factory loads. They are assembled in solid-head .45 Colt cases that have deepened primer pockets to enable use of #9½ Remington rifle primers. The powder charge consists of a triplex load of #2400 and Unique. These powders are densely packed under 30 to 40 pounds of compression when the 262 grain bullets are seated to the shoulders and crimped. This deep bullet seating and consequent close packing insures that the various powder layers will never shift position, and with our ignition system complete burning always occurs. This makes these loads supremely accurate."

Hoping that my hands were not noticeably shaky, I reached for the cannon, noting its family resemblance to the Colt Single Action Army, except that it sported a non-fluted cylinder.

"Just remember one thing," Dick said. "It has a hair trigger. If you just *think* of squeezing one off, it's already gone!"

Casull stepped back from the firing line, and the world suddenly became a cold, friendless place. Keeping my finger well clear of the trigger, I lined the sights on the target and found no comfort in the precise

picture—it meant that I must touch that damned trigger. Slowly, caressingly, I began to squeeze.

The world erupted! Thunder smote my ears; the plow-handled grips slammed into the palm of my hand! I stood there completely petrified as the muzzle rocketed in high recoil. Clouds of dirt and snow geysered from the backstop.

The laughter of the firing party slowly broke through the numbing roar in my ears. I found it easy to smile too! Despite my tense expectations the monstrous thing had been only slightly rougher than a 7½ inch barrel .44 Magnum! It was obvious that anyone shooting .44's extensively could learn to use a .454!

"These big magnums are excellent hunting arms and offer the sportsman rifle-like performance," said Casull. "Look up on that hillside there beyond the target frames. That slightly hollowed out cave is a measured 450

THE AMERICAN SPORTSMAN

Have you been watching this excellent series of ABC-TV programs? Composed of carefully planned and brilliantly photographed sequences of hunting and fishing at home and abroad, these hour-long features were enthusiastically received by the general public as well as by hunting and fishing sportsmen; so well received that sponsors were pleased and ten more shows have been produced for showing, beginning January 23.

The National Shooting Sports Foundation (trade organization of the firearms and shooting equipment industries) assisted in "editing" these programs and in answering the voluminous fan mail received concerning them.

Craig Stevens (TV's Peter Gunn) will be in several of the forthcoming shows. Bob Stack and Joe Foss will be back; Bing Crosby will be in one of the fishing segments; and Jimmy Stewart and Tennessee Ernie Ford are scheduled for some of the hunting parts.

This is one of the outstanding successes so far in the urgent efforts of all shooting sport interests to build and publicize a better public image for guns and shooting. Why not write a note to Tom Moore, President of the ABC-TV network, 7 West 66th Street, New York, N. Y., and tell him you liked "The American Sportsman?" Every such letter carries weight in convincing the sponsors (Liberty Mutual, R. J. Reynolds, and Eastman Kodak) that the show is a good investment.

yards from here and is about four and a half feet in diameter. Take a few offhand shots at it with your .44 Magnum."

When the echoes of my Super Blackhawk had died away Casull spoke again.

"The dust spurts you stirred into the air up there indicate that you got five hits out of ten after sighting in. Take my .454 and try it at the same target. It will be easier to see these big slugs strike. As you shoot, try to evaluate any differences you may notice between the .44 Magnum and my gun."

Casull's .454 seemed to fit my hand like a glove. I held the sight pattern suggested and squeezed off a cylinder load of fat hulls. Once

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again the recoil of the powerful revolver seemed only a little greater than that of the .44 maggie. The .454 slugs exhibited a noticeably shorter time-of-flight due to their superior speed, and my hits rose to seven out of ten.

"Your hits increased with my gun because of two factors. First, the cylinder indexing is carefully controlled and the gun is extremely accurate. Because of the flatter trajectory it requires less range or elevation guess work, shooting closer to the sight picture at long ranges."

We whiled away the rest of the afternoon shooting the big and little magnums at one gallon tins of water set on a bench. Since water is incompressible, this blow-up test affords vivid comparisons between the striking energies of different loads.

Fired from twenty feet, a 1500 fps .44 Magnum slug with a muzzle energy of 1245

ft. lbs. exploded a gallon container into an unwrapped sprawl of twisted tin, and the impact broke one plank directly under the can.

A .454 magnum bullet of 262 grains, with a velocity of 2000 fps and muzzle energy of 2354 ft. lbs., was fired at an identical tin. Upon impact, sheets of flying water obscured vision. The can was torn into four pieces—top, bottom and two sides. The sides were found twenty-five feet to either end of the bench; the tops were not recovered. Two wooden planks were broken where the can had stood.

Casull and his associates feel that the .454 Magnum could open up new sporting vistas, and they envision special big game handgun seasons, with special licenses and fees, just as bow and arrow seasons are now separate and special.

Pistol hunters who want to pack rifle performance in a handgun holster can obtain

.454 Magnum conversions from Casull. The price of the conversion is \$160.00, plus small extra fees for special custom work, with the customer furnishing his own frame and action.

If the demand for .454 Magnums warrants, Casull and his associates plan to completely manufacture these big guns as a new product. It is expected that such guns would cost about \$200.00 to \$250.00. Dick's address is: Casull's Gun Shop, 7355 S. 9th East, Midvale, Utah. I'm sure he would be interested in readers' reactions to these guns—drop him a line.

While these .454 blasters may not be every shooter's idea of a handgun, the trend toward magnum calibers has gathered a great many handgun fans. And, until something bigger and better comes along, Casull's .454 Magnum must be classed as the biggest and hottest of them all.



THE DUCK HUNTER'S BIBLE

By Erwin A. Bauer
(Doubleday & Co., Inc., New York, N.Y., 1965. \$1.95)

Erwin Bauer needs no introduction to GUNS Magazine readers. In 160 pages, hunter-writer-photographer Bauer has done an excellent job of presenting the how-to's of duck hunting. Amply illustrated and written in an easy style, this book brings you a wealth of knowledge. And even the experienced hands can learn a few things—for instance, can you make a goose decoy from chicken wire and cloth? You can't! Then you should have this book.—R.A.S.

HOME IN YOUR PACK

By Bradford Angier
(Stackpole, Harrisburg, Pa., 1965. \$4.50)

What to take, how to pack it, and what to do with it enroute and when you get there—these are the subjects of this most complete "Modern Handbook of Backpacking;" fat little book that should save many a packer many a buck and many a back-ache, as well as helping him to eat better, sleep better, and better enjoy his trip.—E.B.M.

GUNS ON THE ARIZONA FRONTIER

By James E. Serven
(Arizona Pioneers' Historical Society, 949 East Second St., Tucson, Arizona, 1965 \$1.00)

Jim Serven's name on any document having to do with guns is in itself a guarantee of excellence, and this brochure is no exception. Small, paper-bound, and only 20 pages in length, Serven nevertheless finds space to give us here a swift resume of the guns that "won" the Southwest, from

Spanish arquebus (1540) to the Winchester-Colt era at the turn of the 19th century. By no means a definitive history, "Guns On The Arizona Frontier" is a swift-moving, highly readable essay sure to inform most and charm all of its readers.—E.B.M.

MODERN ABC'S OF GUNS

By R. A. Steindler
(Stackpole Books, Harrisburg, Pa., 1965. \$4.95)

Editors of gun magazines are frequently laughed at by the experts (real or otherwise) when they publish basic, beginner-type articles about guns and shooting. Those experts forget, in their own wisdom, that the whole future of the shooting sports and of firearms advancement depends on the youngsters, the beginners, who have yet to learn what the experts learned long ago—and may have forgotten! This book is well-titled: an "ABC" of basics, which every non-expert must learn and which every expert might do well to review. No man ever has, no man ever will know all, much less tell all in any book, about guns and shooting; but Bob Steindler has crammed more into this one than will be found in most others—and he tells it well: tells it simply, understandably, and with a dearth of personal bias that makes it palatable even to the biased! There are modern ways, they tell us, of teaching kids to read without teaching them the ABC alphabet; but there is no way to any sure knowledge of guns and shooting without learning the fundamentals, and this is what this book will give you. Don't out-smart yourself by ignoring what is sure to be a valued work of reference.—E.B.M.

SMALL ARMS

By Frederick Wilkinson
(Ward Lock & Co., Ltd., 116 Baker Street, London, W.1., England, 1965. \$4.20)

Don't let the size (5½"x7¾") of this book deceive you. In the 256 pages, author Wilkinson, who is Honorary Secretary of the Arms and Armour Society, has packed an incredible amount of gun knowledge and history. Exceptionally fine photographs and drawings add a great deal of value to

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this book, and a great many important details, which are often glossed over, are unearthed and examined. Although primarily written for the collector and dealer, this handy book has already proved valuable as a general reference work.—R.A.S.

BOOK OF PISTOLS AND REVOLVERS, 6th EDITION. By W. H. B. Smith. Updated and revised by Kent Bellah. (*The Stackpole Co., Harrisburg, Pa., 1965 \$13.50*)

The classic "Book Of Pistols And Revolvers" has been greatly enlarged, revised and updated in the new 6th edition. It is the standard reference and identification work in military, police and civilian arms libraries in this country and abroad. It has more information on the world's handguns that any other book, with much that isn't in any other work. Part I, by the late W. H. B. Smith, has been carefully revised and corrected by Kent Bellah. It covers weapons introduced before World War II.

Part II, by Kent Bellah, covers weapons since World War II. Section Two, of Part II covers factory ammunitions, with actual (not factory) pressure and velocity for many loads. Some cartridges in the same caliber vary up to 28,000 psi in chamber pressure! Section Three of Part II covers handloading, with actual pressure and velocity for many heavy loads, and suggested target loads.

Bellah has long been handloading editor of this magazine. Post-war weapons of some 53 makers are covered in Part II.

The book evaluates many arms, with specifications that are not in any other reference. There are details on construction, characteristics, history, functioning, operation, stripping, factory changes, development, and serial numbers. This large volume fills the needs of hobby shooters, gunsmiths, arms makers, collectors, handloaders, the military, police, or anyone interested in handguns. Most weapons are well illustrated with sharp photos to make the text of this encyclopedic work clear.—R.A.S.

GAME BIRD HUNTING

By F. Philip Rice and John I. Dahl
(*Harper & Row, Inc., New York, N.Y., 1965. Paper Ed. \$1.50, cloth \$3.95*)

Although much of this material is primarily concerned with bird habitats, distribution, life cycles and similar matters, there is also presented a good deal of hunting how-to. Some of it is somewhat surprising, such as the choice of the Labrador as out-and-out pheasant dog, the relatively limited information offered on the ruffed and blue grouse as far as hunting them is concerned. Despite some of these shortcomings, I'm convinced that many hunters can learn quite a bit from this small book.—R.A.S.

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