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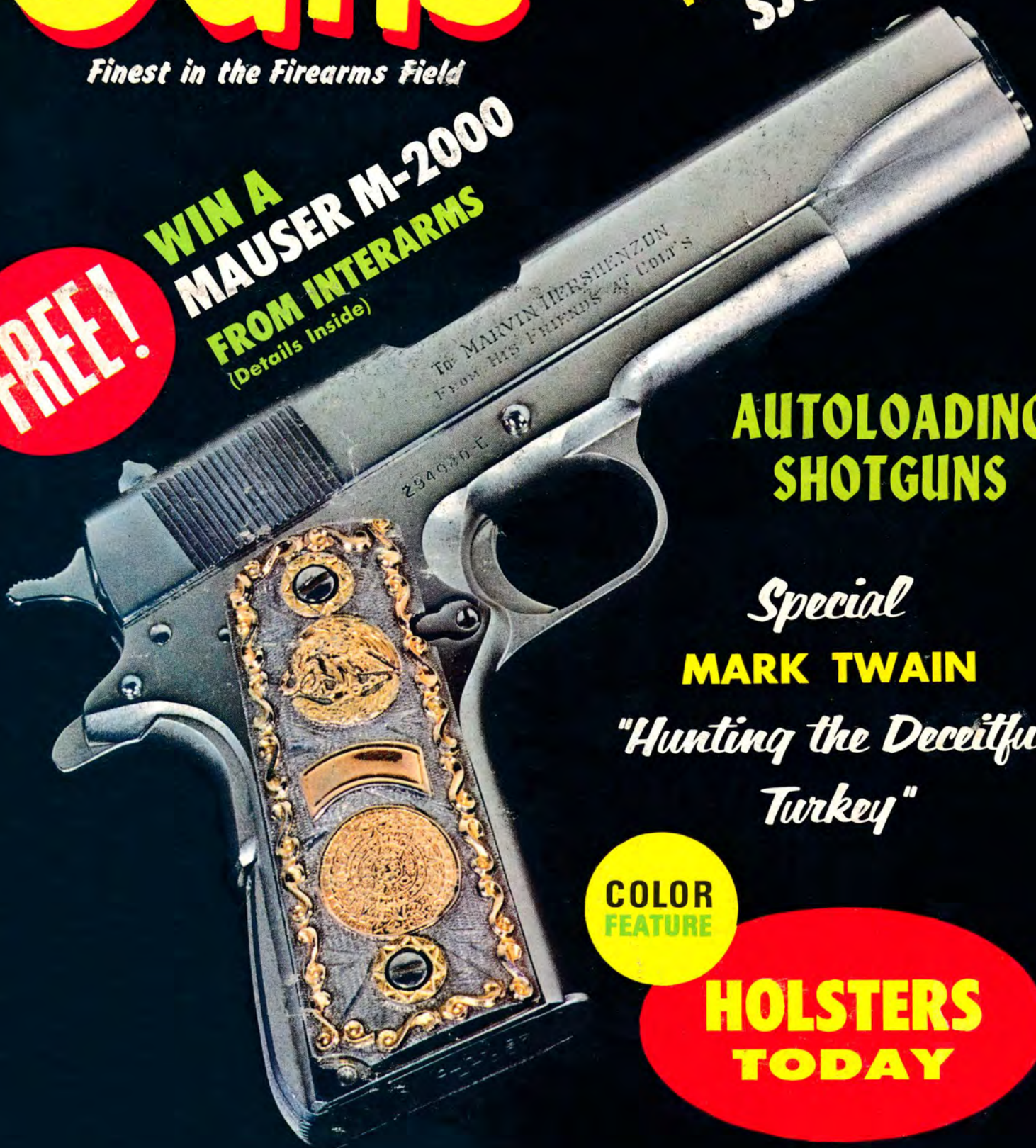
# Guns

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Nylon 77



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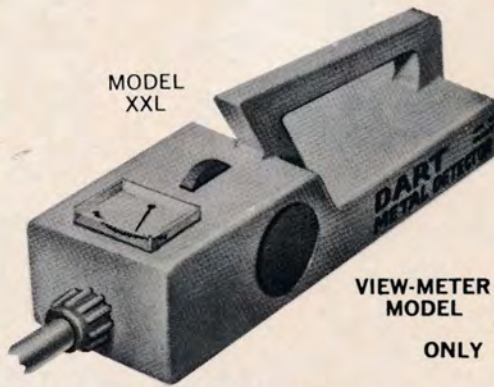
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# News from the... SHOOTERS CLUB OF AMERICA

Dedicated to the Constitutional Right of Every Citizen to Keep and Bear Arms

AMERICA MUST HAVE THE RESPECT OF IT'S YOUNG. Last April, on my way back to the Midwest after attending the National Rifle Association Convention in New Orleans, I just happened to share a cab with a woman who, it turned out, was one of those angry liberals we keep hearing about. This one was about forty years old, had dyed hair, and wore a mini-skirt with black-mesh stockings. She was also unmarried; I guessed this last bit of information when I told her why I was in New Orleans. She jumped as if I had put my hand on her knee. "Guns" she said, "Oh, my Goodness! How Awful!" She then started to lecture me, in a severe voice, on the evils of guns and how they are only used by criminals and perverts and hoodlums. Finally, she declared that all such dangerous weapons should be outlawed. When she stopped to catch her breath, I told her about a tragic incident that occurred in Chicago a few months ago. A group of White and Negro teen-agers were playing ball in a local park. Somebody was pushed and a fight started, a gang of Negro punks surrounded and beat a young White boy to death with the same baseball bats that he had brought for the game. "Do you think we should outlaw baseball?" I asked. "Oh, don't be ridiculous," she said indignantly, "Hoodlums are not ballplayers."

"And punks are not sportsmen and collectors" I answered—after that we rode in silence the rest of the way.

I did not want to waste anymore time talking to this stupid woman, all reasoning seems useless against the brick wall of ignorance that the so-called "liberals" have built around the ideas they have. I did not feel it was necessary to restate the fact that 99% of all gun owners are decent, law-abiding citizens. The fact is that shooting and firearms collecting are older sports and hobbies than baseball, and that our National Constitutional right to bear arms is part of the inalienable right we have to liberty.

From my many years of experience in this field, and from the hundreds of letters that the SHOOTERS CLUB OF AMERICA receives every month from its members, we are absolutely positive that these uninformed "bleeding-heart liberals" cause most of the problems with crime in this country.

For example, last Christmas my wife and I went to Israel to worship in the holy land. They had trouble on the border and

many of the reserves were on fast-notice stand-by. When the soldiers are on stand-by they take their Uzi SMG sub-machine guns with them wherever they go. My wife and I would go out to restaurants at night and pass bars where teen-agers with sub-machine guns and ammunition would be out drinking and going about their business. The main and all-important point is that the Israeli police have no special problems with all these armed teen-agers, because the young people there have a lot of respect for authority. They know that if anything unlawful happens they will pay a high price for their crime. Here in our country things are just the opposite.

Those Negro teen-agers who beat the White boy's head in with baseball bats have no respect for either life or authority. And when they go to trial, the many "bleeding-heart liberals" like the woman I spoke with will try to come to their fast rescue. They will come up with the same old story about how poor and deprived these kids were, and how it is really not their fault. (The Israeli kids were deprived too). Our weak courts will probably listen to this nonsense and give them a few years in prison. When they are older and professional criminals, they will have the protection of the Supreme Court and all the laws that the liberals have pushed through for the protection of "human rights," which in effect these days is protection of big-time gangsters from the police.

We will only have more crime and more innocent people being killed so long as the bonehead "liberals" are influencing the courts and laws. When the young punks and the older and experienced criminals know that they will pay a high and fast price for their illegalities, then we will start to have some law and order in America, and not one day before. We must realize that guns are only a tool, and they have nothing to do with the real causes of violence, which is lack of real respect for the courts, the police, and legal authority. As of right now, the hoods have no respect for the police. They know that the laws are a big joke, and even if they are ever convicted, the sentence will be light. Then after a small rest, it would be crime-as-usual. If you have any doubts at all about this, just ask any policeman who has some experience. The SHOOTERS CLUB OF AMERICA wants to change our country for the better, and we can use all the voices and help we can get. Stand up for what you know is right, join today.

## SUPPORT YOUR RIGHT TO OWN AND USE FIREARMS!

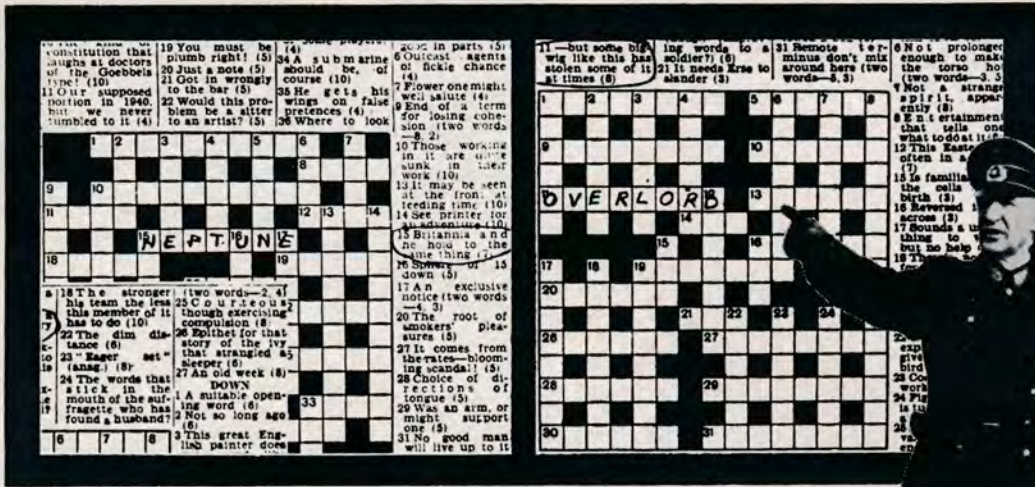
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Field-Marshal Rommel (center) was responsible for Hitler's mighty "Atlantic Wall" defenses. Would they stand up against an Allied invasion? The test came on June 6, 1944, "the longest day" of World War II.

# Did these crossword puzzles tip off Hitler to the time and hour of the D-Day invasion?

(printed in the London Daily Telegraph) June 1944



888. **THUD RIDGE**, Col. J. Braughton. Day-by-day air war in Vietnam! Pilot F-105 Thunderchief streak toward targets... dodge Sam's fight off MiGs... even get "hit"! Pub. ed. \$5.95

874. **BATTLES LOST AND WON**, Hanson Baldwin. Famed N.Y. Times military editor and Pulitzer Prize winner analyzes eleven World War II campaigns. Pub. ed. \$10



894. **THE MIGHTY ENDEAVOR**, Charles B. MacDonald. Major land, sea and air battles of War in Europe vividly retold - from North African landings to V-E day. illus. Pub. ed. \$12.50

877. **THE BATTLE FOR GUADALCANAL**, Gen. Samuel B. Griffith. A turning point in the Pacific War or a needless sacrifice of 30,000 lives? The wholeness! Pub. ed. \$4.50



875. **FLYING FORTRESS**, Edward Jablonski. The B-17's and the men who flew them! 400 "photo album" pictures from 1939 to surrender on USS Missouri! Pub. ed. \$9.95

884. **TO LOSE A BATTLE**, Alistair Horne. An "invincible" nation conquered in 10 days! How softness and corruption led to downfall of France in 1940. Pub. ed. \$10.00



871. **THE TWO-OCEAN WAR**, Samuel Eliot Morison. Pulitzer Prize historian writes story of U. S. Navy, from 1839 to surrender on USS Missouri! Pub. ed. \$15.00

883. **GET YAMAMOTO**, Burke Davis. The most incredible secret mission of Pacific War: how U. S. pilots ambushed chief of Japanese Navy. Pub. ed. \$5.95

Puzzle fans who turned to the London Daily Telegraph on June 2, 1944, had no trouble finding the word for Number 11 Across. It was OVERLORD—the 8-letter word that means "Bigwig". But puzzle fans at Supreme Allied Headquarters hit the ceiling. OVERLORD was the code word for the D-Day invasion—4 days off. Were readers in Berlin "solving" the puzzle too? Worse yet, other D-Day code words appeared on the same puzzle page . . . NEPTUNE, OMAHA, UTAH, MULBERRY. Were German spies transmitting the biggest secret of the war? This incident is just one of many "coincidences" surrounding the allied invasion of Normandy. They are all described in **The Longest Day**. You may have it, if you wish, as one of your 4 books—all for only 98¢ plus shipping and handling, with trial membership.

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# TRIGGER TALK

WINNER!!!

**W**ALKING off with the prize in our "Let's Buy A Gun" Contest, in the March issue, was James Kronenwetter of Canton, New York. He purchased a new Ruger .357/9mm Convertible, and received a check for the full amount of his purchase.

\* \* \*

**RADIO/GUN NUTS.** You meet the nicest people, just by mentioning an interest in amateur radio. We received many QSL cards, and some very interesting letters. Among those who responded were:

Herb Williamson, K7LYT, of Renton, Wash., who mentioned that he would like to buy a 32, 34, or 36 gauge shotgun—reasonable priced, of course.

H.S. Bays, W8DGE, a gunsmith from S. Charleston, S.C., who hangs out at 3995 sideband, specializes in bluing and stock work.

Paul Blankenship, W5OQV, of Muskogee, Okla., who would like to talk light, hi-speed bullets with someone on 70 and 40 meters SSB.

Joe Schroeder, W9JUV, of Glenview, Ill.; Joe is the author of "System Mauser," and the guy that ye editor calls when he has a question about military auto pistols.

Myron Koyle, WA8FNM, of Canton, Ohio, who works 6 meter SSB and 2 meter FM; his interest is American Naval Handguns.

I'll be reporting on more QSL's, and looking into the possibility of a gun net. Bob Brownell is sending out CQ's for gun nuts, and we should get a good response from this.

\* \* \*

Just received a report from the New York City police dept., which goes into the year of 1969. Would you believe that:

"A total of 675 members of the force were assaulted while performing their duty; 23 received gunshot wounds, 32 were cut or stabbed, 67 were bitten by human beings, 317 were punched or kicked. . ." Seems like a wide open field for some legislator, who could call for the registration of teeth—false and real—and even boots.

## THE COVER

Only a few guys are lucky enough to own a Colt which was presented to him from the Colt Company. The story of this gun will be found on page 45.

AUGUST, 1970

Vol. XVI, No. 0-08

George E. von Rosen  
Publisher

# Guns

FINEST IN THE FIREARMS FIELD

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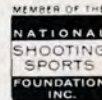
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Partial view of the Mauser facilities in historic Oberndorf.



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There are no short cuts to excellence . . . there is no substitute for precision . . . and none has been accepted by Mauser.

Remember, Mauser is back . . . and the world of fine firearms is better for it.

So, next time someone complains that "They don't make guns like they used to" . . . tell them what's happening in Oberndorf.

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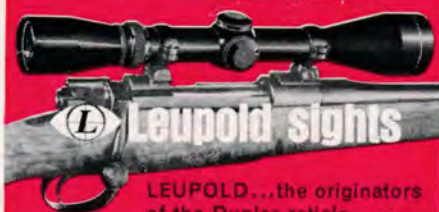
I am very pleased to send you this letter and my warranty card for a new Leupold 2 x-7. This is the third Leupold scope I have owned. One, an M8-4x, was responsible for sighting in on 3 large Caribou, a 1400 pound Moose and a Grizzly bear,

All these taken, by the way, under adverse conditions, such as taken out of warm cars and shot in temperatures to -30 degrees, hauled up mountains in the rain, snow, sleet and wind and bounced around. Once, the scope was jammed in a snow bank and I melted off the snow which had frozen on both lenses by pouring hot coffee over them.

I have yet to see a better performing scope. No fog, ever, no parallax, just a sharp, clear picture at all times. Any time your company needs an endorsement, just have them ask me. Thanks a lot for a fine product.

Yours truly,

  
Allen Heart



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# CROSSFIRE

## A Difference of Opinion

After reading the article entitled "What Was A Gun" in your April 1970 Guns, all I can think to say is that it was one of the most brilliant and true to fact pieces of penmanship I have read anywhere.

Henry Heginbotham  
Albany, Georgia

Upon receiving your April 1970 issue of Guns I was agast that you could publish a piece of Communist-inspired trash such as the article "What Was A Gun." From my way of thinking, the situation is getting better all the time, especially with the advent of the Gun Control Act of 1968. That article is not at all true in its concept as the GCA '68 is designed to simply register guns, not take them away.

Dan Andrews  
New York, N.Y.

## Iran Safaris

It is interesting to note that in the January 1970 issue of Guns only 12 lines of text are dedicated to hunting in Iran. Iran Safaris, Ltd. has been operating for four years, outfitting such notables as John H. Batten, Nicolas Franco, Jr., John Lagarde, Dan Maddox, Warren Page and F. Phillips Williamson, all of which have considerable hunting experience.

The Fish and Game Dept. of Iran has made excellent hunting possible where game populations are first class. There are few places in the world where sportsmen have access to areas as well managed and protected as these. Game animals available to the sportsman are as follows: Urial, Red and Armenian Sheep; Ibex (really the true wild goat or Pasang); Red deer; Boar; European brown bear; Roe deer; Goitered gazelle; Leopard and Wolf.

The article in the January issue was

a bit misleading to the readers. I hope you will pass this bit of information along to them.

David Laylin  
Iran Safaris, Ltd.  
P.O. Box 492  
Tehran, Iran

## Rimmed .30-06

In the January 1970 issue you published an article of mine entitled "How About A Rimmed .30-06?" The manufacturer of the snap-rings used in the article wants it known that they will assume no responsibility regarding some unforeseen "dangerous condition" which might arise through the unapproved use of their product. This request is certainly reasonable although I don't think it is justified.

The manufacturer, Waldes Kohinor, Inc., states: "Our Engineering Department has examined your photographs and the magazine article and has very serious misgivings about this application. Not only is there a danger that the extractor may not properly engage the ring so that the assembly would not work as envisioned by you, but, more serious, we believe that the use of retaining rings in firearms under loading conditions such as those described are far from ideal as regards the normal application of retaining rings and could create a very dangerous condition.

"Under the circumstances we cannot approve of this application, nor can we be responsible should an application which was neither designed nor approved by us lead to failures or accidents."

This seems rather absurd as, if you will recall, the .45 ACP being rimless, required the aid of the half-moon clips to headspace as well as eject cases in the Colt and S & W revolvers produced during WWJ.

D. A. Stawarz  
Park Forest, Ill.



# Mr. Gun Owner— Right now is your minute of decision.

Ask yourself this question: "Shouldn't I support NRA as vigorously as NRA supports my shooting interests?"

As a gun owner, you know that the best shooting is enjoyed by gunners who know how to shoot accurately and handle their guns safely, and that the best hunting is made possible by good conservation and good game management practices. And as a shooting enthusiast, you are certainly aware that in the name of "gun control" there are some well-intentioned but ill-informed people who are anxious to erode the gunning and hunting privileges that you enjoy today.

For 99 years, the National Rifle Association has consistently promoted better education in shooting skills and firearms safety, better conservation, better game management, the development of better gun-sports equipment and the protection of shooters' privileges.

These were the basic aims of NRA's founders, and they remain to this day, the basic aims of this national, non-profit organization.

All the other benefits that NRA offers its membership—warm, good fellowship, friendly competitive tournament shoots, awards for hunters, firearms information and many, many others—are simply the evolutionary by-products of nearly a century devoted to serving the best interests of America's responsible gun owners.

## You need NRA—and NRA needs you!

Never before in history has the threat to the rights and privileges of responsible gun owners been so great as today! Never before have *you*, as a responsible gun owner, needed NRA's efforts to preserve and protect your shooting interests as today! And never before has NRA needed *your* active, cooperative support as today!

NRA's responsibilities to you as a shooting enthusiast are never ending, and must be maintained on a *continuing basis*. To achieve this, NRA has set a goal of one new member every minute, around the clock and around the calendar. Let's start our march to this goal by signing *you* up for NRA membership—right this minute!

# NRA has to win it— one new member every minute!



**Here are a few of the dozen or more benefits you'll enjoy as an NRA member:** An annual subscription to "The American Rifleman," the illustrated monthly magazine that entertains and educates more than a million sportsmen-readers • Prompt answers by experts to all your firearms questions • Firearms safety courses from which over 3 million shooters have benefited • Hunting information in the form of bulletins on gun laws, hunting dates, game availability, shooting preserves • Low cost gun and personal accident insurance • National, regional and local recreational shooting tournaments • Annual awards for hunters in all categories • The brand, spanning new directory of qualified and approved hunting guides, outfitters and hunting camp operators in North America—and *much, much more!*

So, Mr. Sportsman—if you *really care* about preserving—now and *in the future*—the shooting privileges and freedoms you enjoy today, you owe it to yourself to join and support NRA—the big, strong, long-established organization that, in cooperation with many other leading organizations, is so effectively fighting to maintain these freedoms for you!

**FILL OUT, CLIP AND MAIL YOUR NRA MEMBERSHIP APPLICATION NOW. (SEND NO MONEY—NRA WILL BILL YOU LATER, IF YOU WISH)**



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1600 Rhode Island Ave., N.W.  
Washington, D.C. 20036

**National Rifle Association**

1030H

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## HANDLOADING BENCH

By MAJ. GEO. C. NONTE

**O**CCASIONALLY we get complaints from shooters that their handloads don't hold up well in rifle magazines. The latest came from a fellow who said the bullet in the bottom cartridge of the magazine of his M700 Remington was occasionally shoved back into the case by the firing of the other rounds. While this isn't an unusual occurrence, it doesn't happen too often.

First, let's see what causes this. Primarily, recoil force is responsible. As the rifle recoils, cartridges in a box magazine tend to remain in place; bullet points get smacked vigorously by the front of the magazine. If the impact is severe enough, the bullet will be driven deeper into the case. Most factory loads have the case mouth crimped into the bullet heavily enough to resist any possible recoil force. Handloads for use in box magazines are not normally crimped, so the bullet's resistance to impact depends entirely upon how tight it is gripped by the case. The tightness of that grip depends upon neck wall thickness, neck hardness, bullet diameter, bullet shape, and case neck inside diameter. When all these factors are right—within fairly wide limits—the bullet will be held tightly. Tightly enough to resist recoil movement under any reasonable set of conditions.

Thin neck walls are often encountered, sometimes so thin that resizing won't squeeze the case down enough to hold the bullet tightly. Not much you can do about this except special-order a resizing die with an undersize neck, or set the cases aside for casual use when they won't be subjected to repeated recoil in the bottom of the magazine. It may be that your expander button is opening up the case neck too much. If the as-expanded inside neck diameter is greater than bullet diameter-plus .001", the bullet may shift easily. Correct this by polishing the expander a bit smaller. Before working on the expander, make certain the resizing die is reducing the neck sufficiently. If a bullet will seat easily in the un-expanded neck, the die is too large.

won't hold the bullet securely, even if all other factors are correct. When the neck is soft enough to be deformed easily by thumb and finger, it isn't likely to hold the bullet well unless crimped, of which more later. Usually a few firings and reloadings will work-harden the brass to an acceptable level. In a pinch, two or three passes through a resizing die will harden the neck somewhat.

Bullet diameter less than standard will produce a loose fit. Use a smaller expander, perhaps a tighter resizing die, and this is easily corrected. As much as .001" variation in diameter can be encountered in different bullets of the same caliber, so this situation may crop up more often than you expect. Bullet shape can be a factor also. Those with extremely short bearing surfaces, when combined with short-neck cases, may engage the neck for too short a distance. Seating depth can usually be varied to obtain more engagement and correct this condition.

Occasionally an entire batch of cases will fail to hold the bullet tightly enough. Usually, one of the corrective actions can be applied to make them serviceable. More often, though, you'll run across only one or two unsuitable cases in a batch. It may be simpler to toss them aside, use them for reforming, or keep them for reduced loads than to spend any time and effort on them.

When all else fails, just buy or swap for a different batch of cases. Remember, these problems occur only occasionally. It may be that you have no alternative (as in the case of a hard-to-find caliber) but to use the poor cases. Then, the solution is to crimp the case mouth on the bullet. Cases should first be trimmed to uniform length, then loaded in the usual fashion. If a cannellured bullet is used, regulate seating depth to place the case mouth just below the top of the cannellure. As a final step, adjust the seat-crimp die to turn the mouth in slightly on the bullet. Only a slight crimp can be applied on smooth bullets; more on cannellured designs.

Should the case neck be too soft, it

(Continued on page 12)

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## HANDLOADING BENCH

(Continued from page 10)

Don't overdo it or the pressure will collapse the case at the shoulder.

It may be that all this seems to be too much trouble. A bit of work on the rifle itself will prevent the bullets being bashed by the magazine wall. This requires a wedge-shape metal strip to be installed on both sides inside the magazine. The strips are positioned just ahead of the case shoulder. There, they hold all cartridges to the rear, no matter how fierce recoil might be. All except the top cartridge, that is, for it must be free to feed forward into the chamber. This means the strips must stop short of the top of the magazine just enough to allow the top round to feed freely.

• • •

We always like to pass the latest in loading data, especially that utilizing new components. Lee Jurras of Super Vel just supplied us with new tested data using his 107 grain JHP bullet in the .38 Colt Super Auto. This is a cartridge we feel has been sadly neglected. Even in the industry-standard, full-patch load, it out-performs all the other 9mm and .38 auto-pistol rounds. At the longer ranges, it out-performs the vaunted .45 Auto, though at table-top distance, the .45's greater cross-sectional area delivers more wallop. Properly loaded with expanding bullets, the .38 Super beats them all. Unique seems the best all-around powder with light bullets. Here are some SV loads which will help you get the most out of the Super:

### 90-gr. JHP Bullet

- 9.0 gr. Hercules Unique —  
1580 fps - 499 fp - 30,000 psi
- 7.0 gr. W-W 230P —  
1452 fps - 422 fp - 32,500 psi

### 107-gr. JHP Bullet

- 6.0 gr. W-W 230P —  
1321 fps - 433 fp - 30,300 psi
- 6.5 gr. Hod. Top Mark —  
1320 fps - 433 fp - 29,500 psi
- 6.5 gr. Hercules Green Dot —  
1287 fps - 411 fp - 26,300 psi
- 7.0 gr. Hercules Unique —  
1314 fps - 429 fp - 25,500 psi
- 8.0 gr. Hercules Unique —  
1431 fps - 510 fp - 33,000 psi
- 7.0 gr. DuPont 7625 —  
1358 fps - 458 fp - 33,800 psi
- 8.5 gr. AL-5 —  
1267 fps - 398 fp - 22,700 psi
- 9.5 gr. AL-5 —  
1390 fps - 480 fp - 28,100 psi
- 8.0 gr. Hercules Herco —  
1322 fps - 433 fp - 25,300 psi

### 125-gr. JHP Bullet

- 7.0 gr. Unique —  
1320 fps - 483 fp - 30,300 psi
- 8.0 gr. Hercules Herco —  
1321 fps - 483 fp - 31,700 psi
- 13.5 gr. Hod. H110 —  
1385 fps - 531 fp - 28,600 psi

Velocities taken in 5" test barrel.

As can be seen, all three bullets can produce 500 or more foot pounds of energy, and this is amplified by expanding bullets. The 107 gr. JHP opens up to 1/2" or more diameter in water when driven at only 1314 fps by 7.0 gr. of Unique. And that is a load developing only 25,500 psi chamber pressure.

All of the loads above showing 30,000 psi or more should be reduced by 5% for initial use in any gun. You may work up in 0.1 or 0.2 gr. increments from there. Neither should these same loads be fired in the unlocked Astra M400 or Campo-Giro, or the pre-1927 double-link Colt .38 Autos. Those guns lack the strength of the modern Colt, Star, and Llama pistols, though they will chamber the .38 Super. These loads are intended ONLY for the modern Colt standard and Commander .38 Super Automatics and for post-war Star and Llama guns chambered specifically for the .38 Super cartridge.

• • •

You may, like many handgunners, drop a handful of loads into your pocket when traveling or afield. Ten or a dozen insurance rounds aren't at all bulky, far less than a cartridge carrier or plastic box. Unfortunately, loose ammunition carried thus gets dirty and scarred. Try this: lay out 5, 6, or more rounds in a row, whatever it takes to recharge your piece; fold around them at least two, preferably three layers of Saran Wrap or similar material. Before sealing the package, lay in a loop of strong string or fine wire with an end free. When the occasion demands, the string can be yanked to cut through the wrapper to free the cartridges. In the meantime, you have a flat, flexible, dirt-proof package of minimum bulk, and it will lay flat in your pocket without chewing holes in the lining as loose cartridges do. And, as an old border-jumping associate of mine once told me "You can ditch ammo carried that way in a hurry and be clean; no evidence."

• • •

Every now and again a hat full of Colt, S&W, or Webley revolvers

chambered for the .38/200 British cartridge will be deposited in a community. They take standard .38 S&W ammunition available at almost every gun shop. Problem is, most shops stock only a small amount of it, so they run out quickly. Then all the proud new gun owners are crying for ammunition. If this happens to you, just grab a handful of .38 Special brass and chop it off to 0.75-0.78" length and chamfer the mouth. Load with any .360" diameter lead bullet up to 200 grains weight and 3.0 grains Bullseye powder.

The cut-off .38 Special case is about 0.015" undersize ahead of the rim and will bulge to fill the chamber upon firing. Good brass won't split, though, and even if a weak case does, it will not harm gun or shooter. A couple rounds of 1/4" striping or map marking tape in front of the rim for the first firing will center the case in the chamber, making the expansion concentric with the rim.

Don't attempt to resize such fired cases in .38 Special dies. To do so will reduce the bulge, causing the brass to crack after only a few uses. Instead, use a .38 S&W or 9mm Parabellum (Luger) die to reduce the case just enough to chamber freely. Treated this way, shortened .38 Special cases will give good service in .38/200 and .38 S&W revolvers.

Use the same resizing and alignment tricks on surplus .38/200 revolvers which have been rechambered to .38 Special. Due to the oversize chambers, if the bulge is repeatedly resized, cases fail quickly.

With increasing frequency we get requests for a source of ammunition to fit Soviet and Chinese SKS semi-auto carbines brought back as souvenirs from Vietnam. During a recent weekend, three such guns and their owners showed up here in my office looking for fodder.

The SKS, like the AK-47 and several Soviet Bloc machine guns, utilizes the 7.62mm M43 cartridge, also called 7.62X39mm or, in some refer-

ences, 7.62mm Bloc, 7.62mm Chicom, etc. This is *not* the old "7.62mm Russian" rimmed cartridge produced here since about 1917. The 7.62mm M43 is a short, *rimless*, bottle-neck case patterned after the German WWII 7.92mm Kurz. It drives a 122 grain bullet at 2410 fps in the SKS. Velocity will vary in other models because of different barrel lengths. 7.62 mm M43 military ammunition may be obtained from Interarms, 200 S. Union, Alexandria, Virginia. It is of Finnish manufacture where it is the standard rifle and MG cartridge. SAKO sporting ammunition in the same caliber is available from Firearms International, 4837 Kerby Hill Road, Washington, D.C., 20022. Unfortunately, both sources supply only Berdan-primed ammunition; not the most convenient for handloading.

Instead, obtain case forming dies from RCBS, Box 729, Oroville, California, 95965; trim Norma 6.5mm Carcano or 6.5X54mm Mannlicher cases to 1.52" length; then run them through the forming set. Load with 20 grains of IMR 4198 and the Speer 125 grain .308 pointed soft point. Increase the powder charge in 0.5 grain steps until reliable semi-auto functioning is produced. Resize full length to avoid chambering difficulties.

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# GUN RACK

## Eley CB's & BB's

Some extended firing tests with Eley CB and BB Caps has been good fun. Few of us ever shoot these tiny pipsqueak cartridges as even the .22 Short is looked on as of dubious worth. The CB and BB Caps are even smaller. Just why there are two, both being virtually identical, is hard to understand. In the Eley loading, imported by the Savage Co. the BB Cap has a 17 grain bullet and the CB has a 20-grain. Both use the same case, a shell of brass with a length of .3125" (the .22 Short goes .4062") which is crimped into the bullet. The BB bullet has a tapered heel and a bearing in the lands of .0625a, the CB slug is the same. The charge of powder is a minuscule .9 grain. On the Continent very frequently only the primer is used for propellant. These Eley loads develop 750 fps muzzle velocity, the .22 Short by comparison, delivers 1045 fps with a 29-gr bullet. The CB bullet cuts a neat wadcutter hole in the target due to a pronounced sharp shoulder behind the point. The BB bullet has a very blunt nose and a less pronounced shoulder behind the point and the hole in the paper is less neatly made. Neither cartridge will function any automatic arm, neither rifle nor handgun. Tried in the S&W Model 41 chambered for the .22 Short the slide did not budge under the pee-wee force. Because of the hard brass cases, extraction by hand is quite positive. On the Continent, CB and BB Caps are put up in copper cases and quite often extraction problems ensue.

Fired at 50 feet, accuracy with the Mossberg Model 342K carbine equipped with Weaver C4 scope was equivalent to standard .22 Shorts. Tested in the Mossberg Model 351C. an autoloader there were problems. The short little cartridges did not feed properly. It is best, we judged, to fire the pee-wees in a bolt action rifle. Tried in the S&W M41 pistol, the tiny cartridges would not feed out of the magazine but had to be loaded singly. When fired in an old Colt Officers

Model .22 revolver, accuracy was on a par with the standard .22 Short. The forward end of the chambers tends to lead because of the long jump made by the tiny bullet. On sparrows the kill effect is quite equal to the .22 Short and certainly the lack of noise is a decided asset. The report is quite low making the little Eley loads quite acceptable in the basement and garage. *Col. Charles Askins*

## Daly Scopes

The Charles Daly Co. importers of an excellent line of side-by-side and over/under shotguns, has broadened out a bit. Now the firm offers a line of hunting and target scopes. This is a prelude to the introduction sometime this year of a highpowered centerfire bolt action rifle. The scopes are made by the Mirokua Co. of Japan. This is the firm that makes the Daly over/under scattergun. Scopes include a 2.5X, 4X, 6X, 8X and a 10X all with 32 mm objective. Then there is a second more deluxe line which provides these various magnifications but with a 40 mm objective. Finally there are two variable glasses, both ranging from 3X - 9X, the first with 32 mm objective and the second with 40.

To be called the "Grand Slam" line, the company, located at 90 Chambers St., N.Y.C., sent down a 4X40 hunting glass for field test. This scope was mounted on the new Fajen Acra rifle in a Redfield Junior mount. The rifle is a .243 and previous firings indicate it is capable of MOA accuracy. Later the scope was pulled off the Fajen and mounted on an old Remington Model 725 rifle, .458 caliber. This baby develops 70 lbs of recoil and is a good test gun for stability within the scope.

The Grand Slam 4X is 13 inches in length, with 1" tube and a bell objective which opens to 40 millimeters, this is approx 1-5/8 inches, the bell being an integral part of the tubing. Scope body is of aluminum and weight is 11.25 oz. Windage-elevation

turrets are integral to the tubing. The ocular lense screws to the scope body and is sealed against moisture with an O-ring and optical grease. The reticle is a crosshair, subtending 1/2 minute, a very fine wire indeed. Adjustments are internal, by audible click and equal to MOA per movement.

The field at 100 yards is 31.5 feet, relative brightness is 56, eye relief is approximately 3-4 inches. The scope is nitrogen filled as it leaves the factory, and is waterproof due to the liberal use of O-rings at all joints.



Tested in a bucket of water heated to 150 degrees F., the scope neither showed bubbles nor was moisture evident after the test. This is a very severe trial, tougher than a hunting scope would ordinarily suffer in the game fields.

Fired at 200 yards, the glass was first brought to zero. Then 6 clicks of right windage was added and a 3-shot group was fired. It was out 11.5 inches. The 6 clicks were cranked off fetching the scope back to its original zero. A 3-shot group proved this test. Shots fell on top of the original zero.

The elevation was run up 5 clicks and a 3-shot group was fired. It went 10.2 inches high. The 5 clicks were removed and a subsequent 3-shot group plopped into the original cluster.

The scope was then attached to the .458 elephant rifle and 15 shots were fired. The glass indicated no shifts or changes. The Japanese are master craftsmen when it comes to optical glassware. Col. Charles Askins.

### Hearing Protectors

The American Optical Co. has a new ear-muff type of sound guard. These protectors take all the edge off the sharp report of competitors' guns and are especially recommended indoors where the noise is enough even behind the firing pin to do harm to the ears. The American Optical muffs are made of plastic, the cups lined with styrofoam and the edges lined with soft natural rubber. These may be removed for washing when they get dirty. The cups swing on U-bolts which in turn are riveted to the headpiece. This is of spring steel, all the hardware is chromed, and the headpiece is lined with soft rubber. The headpiece holds the cup-extensions which are adjustable. The device may

be worn over the top of the head or behind the ears, whichever is more



comfortable. The sound reduction from a highpowered firing line is such that flinching is eliminated and complete comfort is enjoyed. It is difficult to carry on a normal conversation and to talk one muff must be swung forward on the cheek. You can't have your cake and eat it too! Col. Charles Askins.

### Gun Life

On a recent tiger shikar to central India I took along two cans of a combination rifle cleaner and preservative. This cleanser-preservative is known as "Gun Life" and is made by Sportsman's Laboratories, Anoka, Minn. The cans are aerosol, weigh 4 oz. and sell for one-buck-fifty. The weather in Madhya Pradesh State was hot, and ninety-five degrees during the day and down to 60 degrees during the night. It was the 'tween monsoon season and there was a lot of fine dust in the forest tracks, churned up by our jeeps and the bullock carts of the locals.

Gun Life, which is a light bodied liquid, sprays readily under air pressure. It is composed of dimethylketone and petroleum distillates, and dissolves all the residues left after firing. It removes the film of dust which is inevitable under the hunting conditions we experienced. A fine film left in the bore after cleaning preserved the barrel from rusting due to changes in temperature and humidity. Sweaty hands tend to rust a gun in the heat, and Gun Life provided protection from these hazards. It did no harm if it touched the stock wood. The spray that struck the scope lense likewise was readily removed without harm to the coated glass. The rifle was thoroughly coated with the preservative on the conclusion of the tiger soiree, and it arrived back home in perfect condition.



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# OUR MAN IN WASHINGTON



By CARL WOLFF

Each time a self-styled revolutionary sets off a bomb the outlawing of handloading becomes more probable. Not only would the supply of powder be cut off, but since all ammunition contains powder, an oversight could outlaw all shooting sports.

Under existing law, the transport of explosives across state lines is, under some circumstances, already a federal crime, and under Title II of the Gun Control Act of 1968, anyone having an unregistered mine, grenade, mortar round or bomb is subject to arrest. Any vehicle, boat, airplane, etc., used to conceal or transport such "contraband" is subject to seizure and forfeiture.

However, back in March, the President sent to Congress a nine-point request asking for additional law. He asked that anyone involved in the transport or receipt in commerce of explosives, intending their unlawful use, be made subject to imprisonment for 10 years or a fine of \$10,000, or both.

The penalty would be doubled if injury ultimately resulted of such transport of explosives. The penalties for bomb threats, under the request would be raised from 1 year to 5 years or \$5,000 fine, or both.

He also asked for laws against destroying federal property with bombs, and that the possession of any explosive in such a federal building be made a crime. If any building or property were bombed he asked it be made a federal crime. The strongest request asked for a federal law carrying the death penalty if a fatality occurred.

Any shooting sportsman has to agree with the intent of the President's request. However, legitimate objection can be made. What happens to the guy who steps into the Post Office to mail a letter, after buying some powder for handloading?

This GUNS contributor has checked with people in the Administration and is assured that this was not intended. Said one official: "I am right now making a note to consider that point when our views are presented to Congress."

Since the President's request, all kinds of anti-bombing legislation has been introduced in Congress. A breakdown shows it has gone to four committees. In the House, the Judiciary and Ways and Means, and in the Senate, the Judiciary and Finance.

On May 1, Sen. Thomas J. Dodd (D.—Conn.) announced his Juvenile Delinquency Subcommittee of the Senate Judiciary Committee would hold public hearings May 19, 1970, on his legislative proposal to regulate the sale of explosive devices.

The Dodd measure, S.3653, as introduced, amends the Gun Control Act of 1968. For this reason, it is unclear just what affect this measure would have on the shooting sportsman.

Some informed sources say anything containing powder, pellet or black, would be subject to the same laws as are machine guns and other weapons of war. However, sources in the Delinquency Subcommittee say this is not so.

Under the Dodd bill, they say, anyone buying or receiving ammunition or powder would only be required to submit a sworn statement to the Secretary of the Treasury, stating:

"(A) he is at least twenty-one years of age, and (B) he is an officer or employee of a business engaged in mining, quarrying, agriculture, seismographic research, or similar business activities, and the purchase is for the use of such business, or that he has a bona fide use for such device which is set forth in the statement."

Obviously, few handloaders could meet these requirements! What every shoot-




ing sportsman must do is write a friendly letter to his two senators and congressman requesting that it be written into any new law that its provisions do not apply to fixed ammunition or reloading components.

The situation is urgent. We are in another "long, hot summer." The Library of Congress has made a survey of the various laws of the 50 states relating to the sale of dangerous explosives. The study states that in 22 states there are virtually no controls over the sale of explosives. The study also states that even if one state attempts to keep explosives out of the hands of dangerous persons, criminal elements can merely cross a state line and freely purchase high explosives in another state.

A federal law will soon be enacted

and it will probably be an amended version of the Dodd bill. The other bill to watch is in the House. This measure, H.R. 17154, by Rep. Emanuel Celler, has been referred to the House Judiciary Committee, which he chairs. It has further been referred to Subcommittee #5 (which he also chairs) for hearings.

Called "The Explosives Control Act of 1970," it is patterned after the 1968 Gun Control Act. Only, purchasers of ammunition and powder would need to be 21 years of age and such items would have to be purchased in the state in which the purchaser resides. Another provision requires anyone transporting powder and ammunition in interstate commerce (across state lines or on interstate highways) to get a federal license. 

## The Guns Magazine

# Panel of Experts

1. Each question should be sent directly to the panel member best suited to solve your problem. Mail questions directly to the expert at the address shown below.
2. Each question—only one question per letter, please—must be accompanied by a self-addressed stamped envelope and \$1.00.
3. You will receive the answer to your question directly from the expert. Our panel will select the most interesting questions for publication in this column, but you don't have to wait for the magazine to get your answer.
4. Letters with questions which do not have \$1.00 will be disregarded; those without a self-addressed envelope will be answered in the magazine, and **not directly**.

We have enlarged the staff of our Panel of Experts to give you the best possible service on your questions. Remember, write directly to the expert at the address below—do not send questions to GUNS Magazine—and be sure to include the \$1.00 and the self addressed envelope.

Robert Mandel—Antique Arms

8142 N. Lawndale, Dept. Q, Skokie, Ill. 60076

Shelley Braverman—Modern Arms; Forensic ballistics

Dept. Q, Athens, New York 12015

William Schumaker—Gunsmithing

208 W. Fifth, Dept. Q, Colville, Washington 99114

Les Bowman—Hunting

Box 286, Bountiful, Utah 84010

Maj. George C. Nonte—Handloading

P.O. Box 3302, Dept. Q, Peoria, Illinois 61614

George E. Virgines—Fast Draw

P.O. Box 2014, Northblake, Illinois 60614

Maj. R. O. Ackerman—Black Powder Shooting

9627 Arvada Ave. NE, Dept. Q, Albuquerque, New Mexico 87112

Dick Miller—Trap & Skeet

Casa Correo Sta., P.O. Box 21276, Dept. Q, Concord, Calif. 95421

### .40-82 Marlin

I am shooting a model 95 Marlin in .40-82 caliber and I can not find any data for reloading other than 4759 and 2400. Can I use .45-70 loading data as given in Pacific's new reloading manual?

W. O. Krog  
Slater, Mo.

In the .40-82 Winchester cartridge, you may duplicate SR 4759 loading data with Hercules reloader #7 powder. In other words, simply use the same amount of RE7 as existing data calls for of 4759. Performance will be identical, and pressures will be entirely safe. GN.

### Nickle Plating

I have a .38 special Smith & Wesson that I want to have nickel plated. Where can I get this done and how much will it cost?

Fred Gardner  
Campbellsville, Ky.

I would suggest you forget the nickel plating and have the gun white-chrome-plated. This is much more durable and not quite as shiny. The Marker Machine Company, Box 426, Charleston, Illinois does an outstanding job of this. They also have a "black chrome" finish which looks like a high class bluing job, but is completely rust proof. Their prices range from \$15.00 to \$25.00 for this type of work. I would suggest you contact them for the latest prices. W.S.

### Scheintot Pistol

I have a small pistol brought over from Germany after W.W. II, marked "Scheintot DRGM Pistole". It is single shot, smooth bore, sheath trigger and is loaded by turning the barrel. The gun would shoot a shell about 1" long and  $\frac{9}{16}$ " in diameter. Could this be a flare pistol and can you help identify it?

R. A. Owsley  
Milwaukee, Wisc.

Scheintot (or "appearance of death") pistols were rather commonplace circa 1920. The two-barreled over and under was most popular although single and triple barreled models were also made. The special gas cartridge was supposed to render the receiver of the blast unconscious; it didn't work and the guns were soon forgotten: today, these pistols are curios of the post WWI German industrial scene. S.B.

(Continued on page 49)

Facts  
on

# AUTOLOADING

Control and balance during recoil makes an autoloader ideal for field or targets.

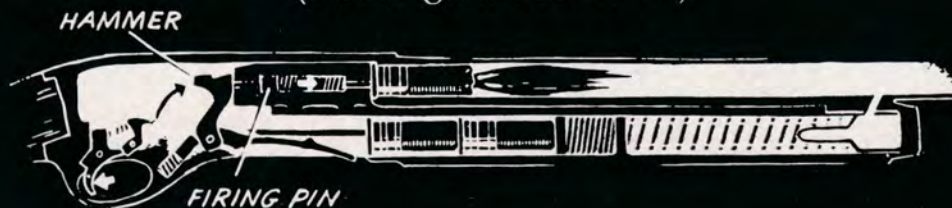
By JAMES D. MASON

**E**ACH YEAR, many thousands of hunters purchase shotguns without much knowledge or direction regarding their choice. Too often, price alone is the main consideration in the purchase; this does not mean *low* prices altogether. Some people purchase a gun because it is high priced, solely for its value in expressing affluence and luxury.

While there is nothing wrong with these motives, the buyer nevertheless inherits the basic characteristics of the gun which may or may not suit his needs. Next to the side-by-side double gun, which represents a very small part of our domestic purchases, the autoloading shotgun is probably the least understood design, and is subject to evaluation largely by preconceptions and hearsay.

The author does not really favor one type of smoothbore over another, since each of the five major types has its own set of characteristics and advantages. Surely there are many knowledgeable users of more than one type of shotgun, and just as surely, there are users of a single type that would be better off shooting an autoloader.

## HOW A GAS-OPERATED SHOTGUN WORKS (Remington Model 58)



**1.** Starting with the gun cocked and loaded, squeezing the trigger releases the hammer, which strikes the firing pin and fires the shell.

Reproduced from COMPLETE BOOK OF RIFLES AND SHOTGUNS by Jack O'Connor, published by Outdoor Life.

# SHOTGUNS

*Reliable, straight shooting,  
the automatic is one of  
the best buys on the market.*

There is plenty of room for more understanding of self-loading smoothbore guns, so that better decisions can be made regarding their choice or rejection by shooters. This presentation will serve to develop background information, discuss operation, design features, and handling characteristics of self-operating scatterguns.

John Browning invented the first successful self-loading shotgun and introduced his design shortly after the turn of the century. This same design is still produced as the Model 5 Browning, after well over two million have been produced in this country and abroad. The Remington Model 11 was the domestic version. It has long since been discontinued, but the design is still made by Savage as their Model 750.

Most foreign-made self-loaders are patterned after the long-recoil design of the original Browning. The long-recoil feature means that the barrel and breechblock recoil together to the rear of the receiver. In the rearmost position, these two disengage, and the breechblock is latched to keep it from going forward. The barrel and extension then move forward to battery from the energy of the recoil spring located around the magazine tube. While this action is accomplished, extractors hold the empty shellcase, which is drawn from the chamber by the forward motion of the barrel. The shell case is ejected by a stud on the barrel extension as it passes the breech face on its way forward.

As the barrel reaches its battery position, the breechblock is unlatched and driven forward by the action spring located in the tang of the receiver. The shell carrier is actuated by the forward motion of the breechblock and feeding, chambering, and relocking is accomplished. This same cycle is repeated again each time the trigger is pulled so long as ammunition is in the magazine.

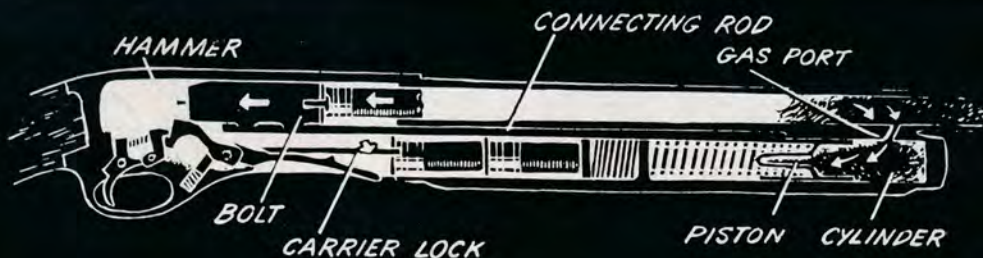
Browning's use of long-recoil was a pragmatic solution to a problem of the day. Shotshells were not the rugged, durable structures that we know today. Early short-recoil experiments by Browning malfunctioned repeatedly because shell heads could be pulled off during operation of the gun. Such stoppages were not acceptable, so Browning developed the long-recoil cycle to assure gentle extraction of the fragile cases.

To keep down the weight of the gun meant that operating parts had to be light and subject to battering and deformation from the free-recoil forces produced by full loads. Browning designed the bronze ring variable friction assembly that acts as a brake to rearward barrel movement, thus reducing battering effects on parts. This was a typically simple and ingenious solution to a problem that otherwise might have defeated the introduction of a practical self-loading shotgun.

It is the hesitation of forward breech-barrel motion that creates the "double shuffle" so often mentioned in connection with the Browning Auto shotgun. This long-recoil configuration was notable as the only successful means of designing a self-loading shotgun for the first half of the century. Numerous other commercial designs copied or made variations on the original Browning system.

Following WWII, Remington redesigned the Model 11 to embrace more advanced mass production standards, and introduced the Model 11-'48. This was still essentially the Browning system, but with a number of simplifications. Today, the impeccable craftsmanship, reliability and traditional square back receiver of the Browning Model 5 still sells these guns as fast as they come off the assembly line.

Returning GI's after WWII and Korea had become accustomed to using semi-automatic arms and demand for



2. The gas generated by the fired shell is metered down through the gas port in the barrel into the cylinder. The pressure of the gas in the cylinder pushes the piston and connecting rod rearward, moving the bolt from the chamber. As the bolt travels rearward it recocks the hammer and opens the carrier lock.



The autoloading shotgun has gained popularity in recent years because of its many virtues.

autoloading sporting guns increased. Seeking improved performance and easier production means, most all major arms makers experimented with new designs.

Improved ruggedness and reliability of fabricated shotshells precluded the necessity of using the long-recoil system for new shotgun designs. The flexibility of gas actuated systems was ideal for designing light-weight self-loading sporting arms. Acceptance of this type of actuating system by ex-GI's paved the way for the development of our current self-loading shotguns.

One of the first new commercial ventures came from Winchester with the introduction of their Model 50 self-loader. This gun utilized a unique movable breech and chamber that unlocked and actuated the breechblock. Much of the weight of the mechanism was located in the rear of the receiver and the butt stock. This gave the configuration muzzle-light balance and limited its popularity and effective applications to fast upland shooting.

Browning introduced the interesting Double Automatic, which used a short-recoil mechanism. It, too, depended on an inertia mass that tended to move the balance of the gun toward the butt stock. Neither of these two designs were overly successful in the American market, and Winchester eventually dropped the Model 50.

High Standard was the first to introduce a successful commercial gas-actuated system. The Supermatic appeared in the mid-1950's and won immediate acceptance. The advantages to this design soon became apparent to shooters and doubled the efforts of other manufacturers to develop similar systems.

Remington brought out the Model 58 that used a gas piston located in the forward section of the magazine tube. Like the High Standard, Remington used the same breeching configuration of the company's pump action shotgun. The use of common parts in both design configurations



**3.** Further rearward travel of the bolt ejects the spent shell through the side opening, and the magazine spring pushes a fresh shell onto the carrier.



All shooters appreciate the limited recoil of gas operated shotguns. These are shots comparing recoil of an autoloader (at left) and a gun of the standing breech design (right).

cut development and manufacturing costs. Most important, though, the variable characteristics of gas actuation made possible the dual design features of both kinds of moving breech guns. Essentially, gas pressure was substituted for manual operation of the pump gun.

Winchester was busy designing the 1200 and 1400 series shotguns to take advantage of this "family" design concept. Remington, meanwhile, changed cylinder assembly designs among other things to improve performance and reliability of the Model 58. The result of this development was the Model 1100.

Today the gas operated shotgun represents the accomplishment of some of the most sophisticated design engineering programs in the history of firearms. Many inherent features of these guns make them ideally suited to a variety of shooters and shooting situations. A description of the three leading gas actuated designs will help to explore these possibilities.

#### High Standard Model C1200

The original Supermatic was the first production gas-

actuated self-loading shotgun. The basic action is still used. Configuration of the actuating means includes a slideable piston fitted around the outside of the magazine tube. The gas cylinder assembly creates a gas chamber between the walls of a steel collar and the walls of the magazine tube. This steel cylinder collar is attached permanently to the barrel. At the interface of these two parts, the gas port is bored to conduct propellant gases into the gas chamber where they expand against the gas piston, driving it to the rear.

The driving force of the piston is transmitted to the action by dual operation rods formed from a single metal stamping. The action return spring is located behind the gas piston on the magazine tube. This complete arrangement makes an engine for using propellant gas pressures to operate the gun.

The breeching system itself works exactly like that of the slide operated or pump shotgun. The High Standard design has a cam slide attached to the operating rods that raises and lowers the locking pin as part of a lost motion movement. Once unlocking is accomplished, the slide picks up the breechblock and carries *(Continued on page 55)*



4. The piston spring starts the piston forward, moving the bolt forward, and pivoting the carrier to bring the new shell into loading position. As bolt moves all the way forward, it loads the new shell into the chamber. The spent gas escapes through the port.



# Guns at the NRA Show

By CHARLES ASKINS

A gun-man's holiday, to be sure, the NRA bash revealed all of what is new today and what's coming for tomorrow in firearms.

THE 99th anniversary of the National Rifle Association was celebrated by holding the annual meeting at New Orleans this year from April 3-8, a period blessed with an abundance of sunshine, blooming azaleas, and all the allure of the historic old French Quarter! Almost a hundred manufacturers were on hand and the Jung Hotel with not one but two exhibit halls, providing ample space without crowding for the firearms displays. The crowds were about average in size and the mood of the throng was one of friendly interest.

The concern of the NRA at its annual meeting these last several years has been one of deep interest in the campaign against sporting firearms. This year that accent was still apparent but the emphasis has shifted a bit to also include our heightening regard for our environment, with its attendant problems of conservation, pollution and related matters.

The facts are that the NRA show, without actually intending it that way, breaks down into two natural divisions. There are the business meetings and then there is the exhibit of firearms and related gear. Many shooter-members attend but only are on hand to look over the displays put on by the manufacturers. They wander from booth to booth, "oogling" the new wares, gathering up the brochures, and pow-wow with the reps on the floor. It is a veritable gun-man's holiday. A treat, a delight and a glimpse of what will be new later this year.



The **Birchwood Casey Co.** had a brand new stock refinishing kit at the show. This packaged job consists of a walnut-tone stock filler, a 2½-oz. bottle of tru-oil, a preparation to establish a base on the wood for the application of the stock sheen and conditioner—the last treatment. There is also a burlap applicator. A lot of shooters want to refinish stocks and this will give the stock a tough, durable and handsome appearance.

Not only gunsmiths but a lot of amateurs like to glass bed the gunstock. There isn't any better preparation than Bisonite. It is an epoxy-base filler and is safely and readily applied. While a favorite of professionals it is so trouble-free any amateur can apply it quite successfully. Made by the **Bisonite Co.** of Kenmore, N.Y. it is one of a number of handy items marketed by this old-line firm. Besides the glass bedding compound there is also a stock finish, gun blue preparation and silver inlay materials.

The Bonanza Model 68 loading press is the latest from this new company, the **Bonanza Sports Inc.**, Faribault, Minn., and is a sturdy, medium priced tool. It is of O-type design, sits vertically on the bench, and the vertical ram will take any standard shell-holder head. The operating handle is machined integrally with the link and will stay in place whether left at the top or bottom of the stroke. The outfit also offers Bonanza's cricket case graphiter, lubricating pad and case sizing lube.

Every shooter needs a spotting scope, whether he be rifleman, pistol shooter or big game hunter. The binoculars are an assist but for really definitive results the spotting scope with a power of magnification of not less than 20X is a tremendous aid. A glass with 20X power is not too difficult to find but when the scope must be fitted inside a kit box, that is something else again! Bushnell had that sort of scope at the NRA this year. It is the Sentry Spotting scope and is made not only 20X but also in 32X and 48X. The overall length is only 13" which is quite critical. The scope weighs 24 ounces which is not so important. It is quickly adjustable by rotating the eyepiece and in 20X will readily pick up .22 cal bullet holes at 100 yards. Made by the **D.P. Bushnell Co.** Pasadena, Calif.

The **Caswell Equipment Co.**, Minneapolis, is the oldest maker of indoor target systems. This firm offers the most modern version of range control systems, target traps, deflection screens, wire, monorail and floor target systems, the Hogan's Alley target set-up, and others.

The Carl Gustaf Model 63 rifle as imported by **Century Arms Inc.**, St. Albans, Vt., is the Swedish import made up especially by the Swedish Army for target shooting. It is chambered for the 6.5X55 caliber and also for our .308 Win. round. The rifle has a Mauser turn-bolt action, the Model 1896, with a cock-on-closing action of the lock. The barrel is 29.1" in length, with (Continued on page 52)



# RED STAR SPECIAL

**N**OBODY KNOWS how many thousands of serviceable Russian TT1933 "Tokarev" pistols may be rusting away in forgotten footlockers or neglected war souvenir collections in this country today. This simple, sturdy, high-powered automatic was designed in the USSR before WWII and produced in large numbers there and in postwar Hungary, Poland, and Communist China. As a G.I. souvenir item they first started coming back from WWII even though the Russians weren't our (declared) enemies at the time. While obsolete in the Soviet Union since the 1950's, Tokarev-type pistols keep turning up all over the world whenever the Cold War gets Hot. Korea, where surplus Soviet arms were abundant, was the first really big source of souvenir Tokarevs, and ChiCom copies are currently the enemy sidearm most commonly encountered in Viet Nam.

The Tokarev is essentially a Colt-Browning swing-link type of locked breech semiautomatic pistol, simplified for cheap mass production. It is chambered for the Russian 7.62x25mm "Type P" pistol cartridge, a high-velocity bottlenecked round which was also used in their (in) famous line of mass-produced submachineguns. Although the

Tokarev is somewhat clumsy looking, it is a proven design which is powerful, reliable, and surprisingly accurate.

"All this is very well," you may be saying, "but who can scrounge up any of the oddball Russian ammo to shoot with these clunkers?" A little study of ammunition tables, however, reveals that the 7.62mm Russian pistol cartridge is virtually identical to, and in fact completely interchangeable with, the .30 Mauser Pistol (7.63mm) round. The latter cartridge is better known for its use in the ancient "broomhandle" Model 1898 Mauser Military Pistol, and there are apparently enough of the ugly old slabsides in circulation here to have kept up a small demand for the ammo. Most well-stocked gun shops will be able to turn up a few dusty boxes of perfectly good, clean, modern ammunition of this type.

The stories behind the Tokarev and its 7.62mm Russian/.30 Mauser Pistol cartridge are interesting in themselves. Back in 1893, a naturalized American citizen named Hugo Borchardt developed a bottlenecked, smokeless-powder cartridge with a jacketed bullet for use in his toggle-locking 7.63mm self-loading handgun. Manufactured in Germany, it became the world's first commercially successful auto-



Tokarev field stripped. Note characteristic removable hammer group, the locking ridges around barrel, slide stop retaining clip on the right side of the receiver, and the metal "T" grip retainer on the inside of left grip.



Chinese Communist-made Tokarev as it was captured in Viet Nam. It came complete with the fabric lined full flap holster, lanyard, a spare magazine and cleaning rod attached to front edge of holster, and dated 1966.





By  
**GEORGE H.  
 DUCKWORTH**

Above: Grip markings indicate gun is Chi-Com, not Russian. Right: twenty-five yard test measured 1½" using "Kentucky windage" method, shooting low and to right.



matic pistol, and was later to evolve into the immortal Luger. The preliminary acceptance of Borchardt's auto pistol influenced Paul Mauser to adapt the cartridge for the clumsy but efficient Model 1898 Mauser Military Pistol. Both Borchardt's and Mauser's oversized guns were rendered obsolete by the more compact Colt, Luger, and Browning designs of the early twentieth century, and the potential of the .30 Mauser Pistol cartridge was almost completely overlooked for thirty years.

The next weapons designer to appreciate the virtues of this potent round was a Russian named Fedor Vasilevich Tokarev. Born in 1871, he became a Cossack officer after many years of technical schooling and apprenticeship to arms makers. Before WWI he submitted several unsuccessful automatic rifle designs, then served at the front during the war; it is conceivable that he was shot at with Mauser pistols and that the impression lasted! After the Revolution, he directed various arsenals and arms factories

while continuously submitting new weapon designs. A first measure of success came with the adoption of his semi-automatic pistol in 1930, and a slightly simplified version standardized in 1933 became the principal Soviet sidearm. However, Tokarev's greatest life's work seems to have been his assault rifle, which was finally perfected and adopted in 1939 after 30 years of perseverance. Only after acceptance of his rifle was Tokarev, an old Cossack, granted membership in the Communist Party. After the war, Russian propaganda releases reported that this lifelong weapons expert worked at an arsenal converted to civilian production, supposedly developing a better movie camera!

While the TT1930/TT1933 was an undisguised steal from the Colt-Browning designs, Tokarev's credit is mainly for his ingenious simplifications. To begin with, the Tokarev pistol has no positive safety mechanism whatsoever! Obviously, a considerable number of parts and machining steps were eliminated (Continued on page 62)

# TARGET SHOOTING

## —A LOOK TO THE FUTURE



By CHARLES ASKINS

EVERY RIFLEMAN is a target shooter. This is not to say he regularly attends matches, but sometimes during the year he fires at targets. This may be to zero a rifle, check out a newly mounted scope, or to pin down why he missed that old mossyhorn in the swamp; but all of us do, more or less, some target panning during the annual interlude.

The strictly target marksmen are another breed. They bang away winter and summer and go to local, state and national matches. They are ambitious, and winning is the logical goal; all their practice is aimed in that direction. Their guns, loads, equipment and training are highly specialized and grow more intricate all the time. Some hunters poke fun at the targetman, saying his game and his practice is not practical, that when the chips are down and the whitetail buck is flitting through the tamaracks he will miss. This is not true at all. The target gunner plays a sensible sort of game which keeps him in good shooting form and to deride his practice is to display an ignorance of its good points.

What of the future of target shooting? Where is it headed and what will it look like at the end of this decade?

A sign of the times, this shooting jacket is covered with emblems from many matches and clubs.



**300**

The most popular target in competition today is the 300 meter International. The 10-ring measures 3.94".



The organized shooting sports, rifle, handgun, smallbore, air rifle, benchrest, and skeet and trap are changing—and rather rapidly, after a period of utterly no variation for decades. What's for the future?

To begin with, I believe that target distances are going to be shortened. This is in the cards because of population increases over the forthcoming decade, suburban expansion, the skyrocketing cost of real estate, construction of roads and super highways, and other equally cogent factors—all of which will limit the consideration of firing grounds like the old 1,000 yard ranges.

Another element usually not taken into account is the service rifle and its load. The army has a distinct influence on organized shooting. Our courses of fire are all take-offs on the army course, and the service arm is used in many of the matches. When the .30-06 was the army caliber and the old '03 Springfield was the military weapon, match distances stretched to 1,000 yards. Now, with the M-16 automatic and its .223 cartridge as the army standard, a gun and load accurate only to about 300 meters, you may be sure that target distances will be shortened.

When the yardage is squeezed down, the targets are made more difficult, and this has already begun. In 1967, the old A and B targets were thrown out for match shooting with the highpowers and targets S-R and M-R were adopted

and approved by both the NRA and the army. For more than a half-century we had done our target shooting on the A target. It had a bullseye which scored 5 and measured 12" in diameter. In it was a V ring which went 4". The new S-R (for Short Range) target has an inner ring which scores 10 and measures only 7 inches. Within it is an X ring which goes only 3". The 9 ring has a diameter of 13" and these are the only rings in the bull.

The M-R (Medium Range) target for 500 and 600-yard shooting has a 10 ring of 12" with an X ring within it of only 6". The 9 and 8 rings are both in the black, the former measuring 18" and the latter 24". This gives the marksman a little bigger aiming point. The old B target had a bull of 20 inches diameter. The 1,000-yd target, known, quite appropriately as the C target, has not been revamped. It might just as readily have been shaped up to conform to the SR and MR marks. The fact that it was not is related to the National Match course of fire which is limited to distances not longer than 600 yards. The 1,000 yard match is going out of fashion.

Another target and another course of fire is strongly influencing American targetmen—this is the International. The maximum distances fired on this mark and in the matches is 300 meters. The International target is a tough cookie, it has a 10-ring which measures only 3.94" (Continued on page 68)





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# S&W

## MODEL 61

### 'ESCORT'

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By JAN A. STEVENSON

**P**OCKET AUTOMATICS have never been Smith & Wesson's strong suit. They introduced their first one in 1913. Based on the Clement patents which S&W had purchased in France, and chambered for a unique and anemic cartridge called the .35 S&W Automatic, the gun was altold wierd. It was dropped in 1921, by which time a mere 8,350 had been made.

Three years later Smith girded for another go. The Clement design was switched around here and there, and the off-brand .35 cartridge gave way to the popular .32 ACP. Still, the result was distinctly odd, with no particular redeeming virtues. It was expensive to manufacture, and its reception in the marketplace was a universal yawn. No tears were shed when it quietly sank from sight in 1937.

Doubtless it was with some relief then that Smith & Wesson shied clear of small self loaders for the next quarter century and devoted their considerable talents to the perfection of their fine line of service and sporting revolvers. Next along came target automatics in rimfire and centerfire, and betwixt the two a large bore, locked breech service automatic. All have been hailed as the best of their type in the world. By 1965 pocket automatics were the only type of handgun unrepresented in S&W's extensive catalog of 40 different models.

And the market was definitely there;

imports were amongst us in profusion. The Belgian-built Baby Browning was going on a half-century of unwavering popularity, Colt's had begun distributing the Spanish Astra Model 2000 in 1958 under their own name as the "Colt Jr." Smith & Wesson reasoned rightly that a small self-loader with their label on it, reasonably priced, and made in their plant would find an enthusiastic reception.

S&W management gave their research department the go-ahead to develop a pocket automatic, and the proj-



The new Model 61 hides well in the hand but is larger than most .22's.

ect proceeded in fits and jerks over the next five years as more urgent war-connected tasks kept intruding. Prototypes had been wrung out and a 500-gun pilot run was underway by late 1967; finally on 1 March, 1970, the wraps were pulled off the gun they call the "Model 61 Escort".

The Model 61 is a blowback operated, semi-automatic pocket pistol, chambered for .22 Long Rifle with a magazine capacity of 5 rounds; it has a single action trigger and is fired by an internal, concealed hammer. In many respects it is an intriguing, fascinating gun, and a careful examination indicates that its designer is indeed gifted. The gun's foremost characteristic is that it's utterly dirt cheap to manufacture, and this largely sums up its interest to me.

The grips are injection molded plastic; the frame and sideplate are die cast aluminum alloy; the safety, trigger bar, disconnect, and ejector are stamped; and the trigger, hammer, sear, magazine latch, and front and rear sights are made of sintered steel. Most everything else comes off a lathe or screw machine. Indeed, only the barrel and slide take machine fabrication in the classic sense, and none of this lot needs hand fitting.

The barrel is drilled, reamed, and turned from solid, then painstakingly rifled by broaching in the finest Smith & Wesson tradition. In truth it could

The comments listed below are personal opinions of the author. They were removed from the text only because they were not fact.

1. *The Model 61 is the easiest cocking pistol I've ever used, and is the only one I know of that even the weakest woman will not have the slightest difficulty in operating.*
2. *The most damning feature of the gun is the handle or the grip, which, incredibly mishapen, makes the Model 61 one of the worst pointing pistols ever produced. The innermost point on the concave curve of a pistol's backstrap should be up as near the tang as possible, and in no case should it fall much below a horizontal line through the center of the trigger. This point, on the Model 61, falls well below the trigger guard. The entirely predictable result is that the muzzle swandives when the gun is pointed instinctively, and it takes a supreme upward cock to the wrist to lift it on target. The Escort thus makes toenail shots the rule in instinctive shooting, and is the only pistol I've seen which is worse than the Mauser HSc in this respect. It can of course be mastered with practice.*
3. *We were discussing awhile back the design of the slide, which has something to do with the fact that the magazine capacity of the Model 61 is inadequate, and that the gun is too big and too heavy as well. For instance, the Escort takes 5 .22 LR's; the Chief's Special takes 5 .38 Specials; both weigh 14 ounces.*
4. *In summation, Smith & Wesson's Model 61 Escort is accurate and reliable. It has good sights, a stiff trigger, and an unuseable safety. It points wretchedly, and its magazine capacity is considerably less than it should be for a gun of the Escort's excessive size and weight. The Model 61 should have been double action, and it should have had an external hammer.*

just as well be button rifled from seamless tubing, but Smith & Wesson doesn't happen to be set up for this, and they sure do enough know how to broach.

The breechblock, or slide rather, is machined from a forging, and is notably slab shaped and bereft of devious internal nooks and crannies bereft even of railings. This is the most expensive component, and it can't be much bother to build.

The crucial components—sear and hammer—along with four other parts are, as we've noted, made of sintered steel. The sintering process involves compacting powdered metal in a die under tremendous heat and pressure. It is infinitely cheaper than machining, and yields an incredibly precise part. When other manufacturers, several years ago, attempted to cut costs by replacing previously machined components with powder metal parts, it proved disastrous. They failed to hold up under stress and impact, and sharp edges crumbled under wear. The fault however was not in the process but in the application. If a gun is designed from the ground up for sintered parts, they can work excellently. The Model 61 was. The sear is not sort of knife-like but rather forms a triangular prism, is blunt on top, and its working surface is massively buttressed. The full cock notch in the hammer forms a well supported right angle—there is no thin lip to crack or crumble. The steel

alloy powder metal parts are impacted to high density, then are surface hardened, probably to a depth of 6 or 7 thousandths which is Smith's usual casing depth. They should stand up indefinitely. Smith & Wesson claims to have put the gun through gruelling endurance tests but declines for some reason to disclose specific results, vapidly generalizing that it performed superbly.

So much for construction. The design of the gun is a mixed blessing, with good points and bad about equally distributed. The decision to chamber for the .22 Long Rifle was an intelligent one (for the .25 ACP too often succeeds in merely antagonizing an assailant) but fraught with problems. The .22 is inherently jam prone. The soft lead bullet, generously daubed with wax, snags on the slightest pretext and soon gums up recoiling elements. The rimmed case stacks poorly in the magazine, makes feed angle critical, and likes to nosedive on the way to the chamber. Smith & Wesson seems to have solved these problems handsomely.

One engineer told me he had fired a Model 61 for 2,000 rounds with no malfunctions. I personally fired 500 rounds through an early prototype—that's 8 different brands of ammo—with no problems that I can recall. When production was well under way I returned to (Continued on page 50)

With front sight removed, spring and guide pull out. Slide is then pulled back and lifted up and off the frame.



Center and above: Field stripping is very easy and yields these components. Note the extreme simplicity.

# Where to Hunt?

By JOHN H. HARDING

**There's free land out there and lots of it. More and more large companies owning land are opening it up to the hunter, fisherman and the campers.**



A duck hunter who hit it big along one of the many rivers, tributaries, etc. in WENPCO country. This is an example of what can be had by hunting the unspoiled land of many corporations.

A RECENT Milwaukee Journal article asked: "Where will they hunt. Increasingly they're finding the 'not welcome' sign on privately owned land. . . . This is especially around the large urban centers of the state—the places where hunting pressure is the greatest."

The Journal refers to Wisconsin hunters. But this is a national phenomena. It effects all hunters in all areas.

But weep no more you nimrods. There's 65,688,333 acres of corporate land awaiting public use and much of it is available to the hunter. And most of it not too remote to urban centers via today's super highways. Not in an attempt to drown the hunter in statistics

but rather to acquaint him with the potential for hunting in these 65 million acres, 88.2 percent are owned by 234 companies. More than 95 percent of these corporations open their properties to public use. These uses include many avenues, but of particular and peculiar interest to the hunter is some of the lands use exclusively as beagle dog training tracts. If dedication to the hunting dog is of such importance to a corporation, imagine the importance of the hunter.

Those companies that do make their land available include two categories: The lumbering giants such as Weyerhaeuser of Tacoma, Washington and

public utilities like the Wisconsin, Michigan Power Co. (WMPCO).

Weyerhaeuser has much to offer the hunter. A behemoth among giants, it controls over 4,000,000 acres of timber land in the U.S. Approximately 800,000 acres in Arkansas and Oklahoma, 640,000 acres in North Carolina, and the remainder in the States of Washington and Oregon.

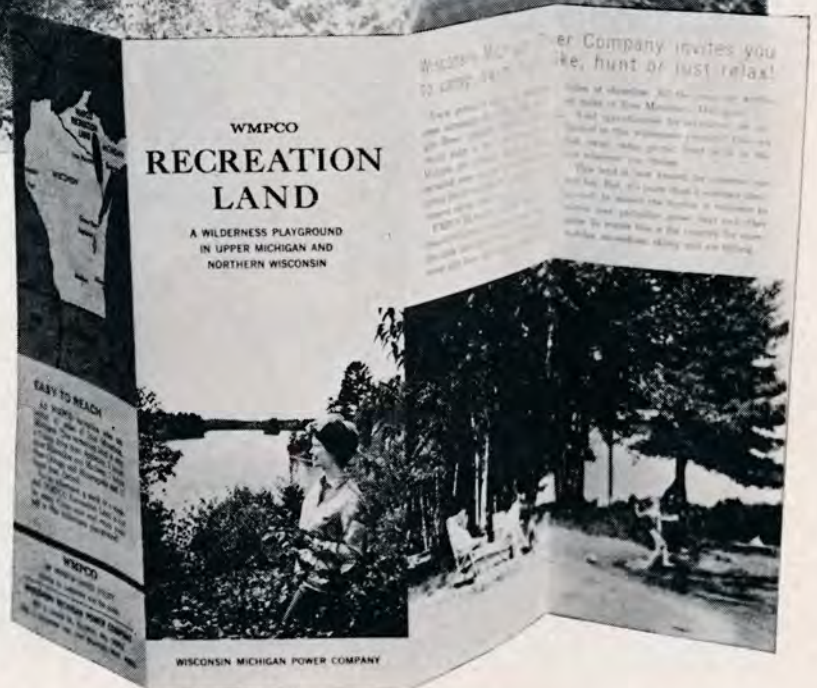
Another example is WMPCO (the Wisconsin-Michigan Power Co.) whose hydro-electric plants in Michigan's Upper Peninsula and northern Wisconsin take in more than 40,000 acres of forest land bordering many man-made lakes and several rivers.



A hunter in WMPCO country. Water probably created by a hydro-electric plant in area.

Compared to the 65,000,000 acres available, these are merely typical. But they do give a good overall view of what the nation's corporations have to offer the hunter.

Weyerhaeuser, centered in Tacoma, Washington has 2.7 million acres open to hunters in Washington and Oregon. According to the Weyerhaeuser Public Relations department, "Much of our Pacific Northwest land was opened to public hunting soon after we established the nation's first tree farm at Montesano, Wash. in 1941. Today virtually all of 2.7 million acres in Washington and Oregon are available to



Brochure describing wilderness areas available to the sportsman. The booklet is available from WMPCO.

nimrods during the big game seasons, fire weather permitting, of course."

Weyerhaeuser's Washington and Oregon lands constitute about one-half of its holdings and offer the broadest choice of big game (particularly elk, deer and black bear) of any. The lands in the south have some deer and bear, but the bulk of the hunting in many areas is small game, upland birds and migratory waterfowl.

For years Weyerhaeuser has provided free hunting maps showing road systems in their land in Oregon and Washington. In the fall of 1967, other companies and the Washington Department of Natural Resources joined with the lumbering corporation in producing two joint hunter maps showing logging road systems on nearly all of the prime range in Southwest Washing-

ton. Weyerhaeuser also produced its own maps as usual for hunters on six other corporate tree farms areas in Washington and three in Oregon. A conservational aid to the hunter has been recently introduced. It involves an internal land management policy to protect the habitat of the American bald eagle, a declining species on Weyerhaeuser's Pacific Northwest lands. In addition to preserving nesting trees and other associated activities, Weyerhaeuser placed on its 1967 hunting maps a message explaining how to identify eagles and why they should not be shot. Advertisements on the same theme were inserted in local and regional newspapers just before the opening of the Oregon and Washington hunting season.

Tom France, Weyerhaeuser's newly

appointed Manager of Recreational Development summed up the corporation's attitude when he stated: "In our view, it is entirely possible for the recreationist (in this instance, the hunter) and the industrialist forest to live harmoniously."

A Weyerhaeuser Public Relations Procedure "Approved by the President as revised, 3/28/68" further amplifies France's feelings when it points out, "Recreational opportunities will be offered both free and on a charge basis through the use of designated tree farm areas for camping, hunting, fishing and other recreation uses."

Public relations speaks of corporate southern lands: A successful program of leasing hunting rights to organized clubs is being carried out on some of our southern lands where this system has been traditional. Other areas are open to public hunting. Bill Cluck of Weyerhaeuser's Dierks Forest subsidiary in Hot Springs, Arkansas, succinctly describes opportunities available to the hunter in Oklahoma and Arkansas:

1. 1,300,000 acres
2. General location is lower part of Ozark Mountain Range from southwest of Little Rock, Arkansas to North of Hot Springs, Arkansas; then to Greenwood, Dierks and DeQueen, Arkansas, on to extreme Southwest Oklahoma for the Western half.
3. General policies have not been set so old practices prevail, such as:
  - a. Easy access
  - b. Free and open use of Company lands
  - c. Sportsmanlike care of wildlife
4. Species:
 

<i>Arkansas</i>	<i>Oklahoma</i>
Deer	Deer
Quail	Quail
Squirrel	Squirrel
Turkeys	Ducks
Coon	Geese
Ducks	Coon
Geese	

Weyerhaeuser's Land Use & Administrative Supervisor at Plymouth, North Carolina, E. A. Norman, speaks of a 1968 A.F.I. conducted survey of recreational use of industrial land, including sport hunting. He feels the results would certainly be of interest to all hunters. It can be obtained from the American Forest Institute, 1835 K Street NW, Washington, D.C. 20006.

Regarding Weyerhaeuser's North Carolina operations, he has a great deal to say of interest to the rifleman. Weyerhaeu- (Continued on page 48)



Mother and son take a deer stand in Douglas fir clearcut on the western slope of Washington's Cascade Mountains. This is part of nearly 1.8 million acres that Weyerhaeuser opens to hunters in Washington and Oregon.



## Lead may turn to iron under a program to halt fowl lead-poisoning



Lead In Ammunition was presented by J. J. Hollis, Manager Ammunition Product Engineering, Winchester-Western Division, Olin Corp. It was given to the 42nd Annual Meeting of Lead Industries Association, Inc., April 10, 1970 in St. Louis, Mo.

By J. J. HOLLIS

AS FAR BACK as 1946—24 years ago, the ammunition industry was actively pursuing programs to replace lead because of short supply and rising prices. Lead, however, is universally recognized as the ideal element for shot in sporting ammunition. No other metal or compound offers matching physical or ballistic characteristics, with the exception of gold, silver and certain few precious metals. Nothing comes close to lead in terms of economy, availability, and production simplicity.

In 1948, the Illinois National History Survey and Olin engaged in a joint study to determine the toxic effects of lead on penned ducks. This is perhaps the most serious problem the industry is faced with today in using lead. In 1966, the Illinois Conservation Department prepared an estimate of the number of waterfowl killed by lead poisoning—which was a large percentage of the total bag limit that year.

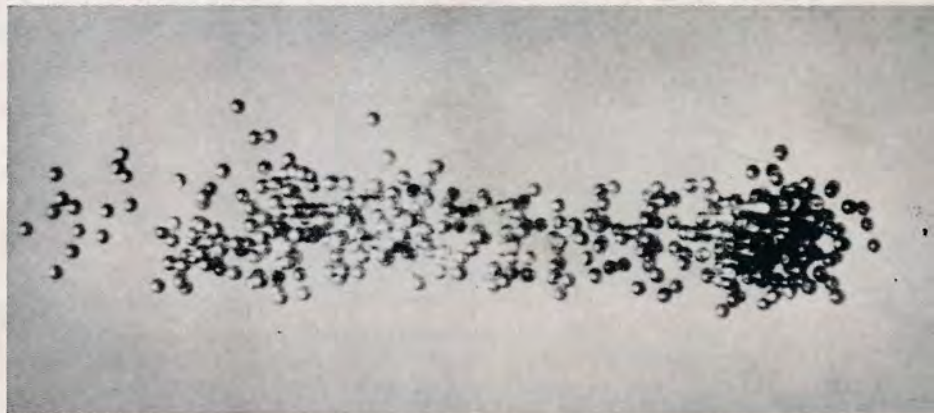
This poisoning is noted primarily in dabbling ducks such as mallards and pintails which ingest spent shot picked up from marsh and feeding ground bottoms. Poisoning is induced in the waterfowl by the gizzards generating toxic fluids resulting in ultimate starvation or loss through predation.

In late 1965, the director of the United States Bureau of Sport Fisheries and Wildlife informed the leading American and Canadian makers of sporting firearms and ammunition that waterfowl losses caused by lead poisoning might shorten duck hunting seasons or force reduction in bag limits on certain flyways. Responding to the problem, manufacturers thru our trade association, the Sporting Arms and Ammunition Manufacturers Institute (SAAMI), began a research program to identify a nontoxic modification or substitute for lead in shot shells for waterfowling.

After careful review of proposals by three organizations known for expertise in the fields of metallurgy, physical ballistics and chemistry, the Illinois Institute of Technology—Research Institute was selected to conduct a two year research project. The Patuxent Wildlife Research Center at Laurel, Maryland, with staff of the Bureau of Sport Fisheries and Wildlife, were program coordinators. They furnished biological test facilities and consultation on ecological problems. Four general areas were explored—(1) bio-chemical additives for lead that might render the metal harmless in waterfowl systems; (2) Lead-iron/plastic composites; (3) plated or coated shot; and (4) iron shot. The first three approaches resulted in negative results and the last approach—iron shot—was pursued, even though there were obvious shortcomings with iron shot produced by then (*Continued on page 67*)



# IRON SHOT



# Ever see a Sjogren?



The Sjogren in full recoil, ejected shell in the air and breech block in rearward position.



Sjogren has one Mauser-type safety to lock the firing pin, other is of the tang variety.

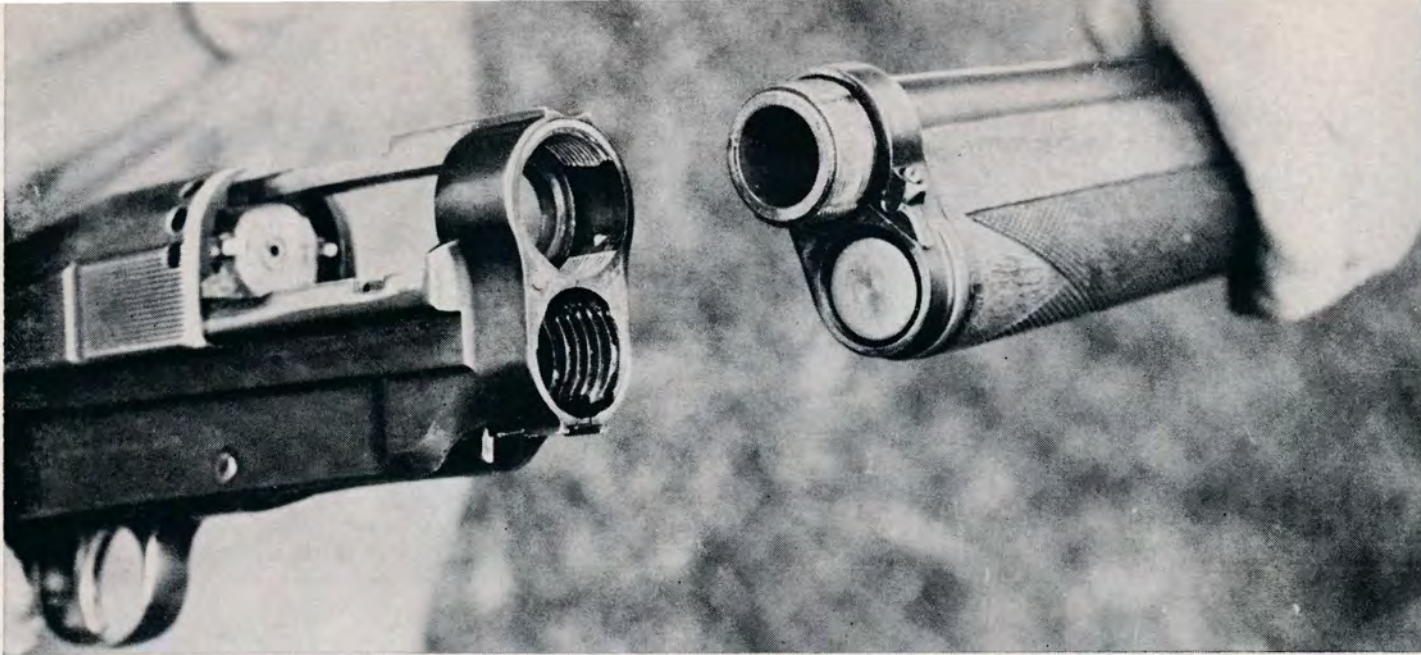
By DON ZUTZ

IT IS VERY SELDOM today that the sight of an autoloading shotgun will cause even the most conservative gun buff to grimace. In general, we've gotten used to the square-sterned Brownings and the pregnant-appearing High Standards, and the curved receivers on Remington's 1100's and Winchester 1400's are often considered graceful by connoisseurs of self-shucking scatterguns.

But if there is one semi-automatic shotgun that will cause traditionalists among bird-gun lovers to have fits and nightmares, it is a European concoction called the Sjogren "Automat." This wingshooting weirdo has lines unlike any smooth-bore ever foisted upon American uplanders and waterfowlers; and, if it can be described at all, one is forced to say it **somewhat** resembles a Browning 5-shot with the top half of its receiver slashed off. Just try visualizing that!

Scientifically speaking, though, the Sjogren can best be explained as a semi-automatic shotgun based on the inertia block system; meaning it functions on the same physical principle as did the Winchester models 50 and 59.

However, that is where the similarity ends. For whereas the Winchesters were designed with full-length receivers and milled grooves to enclose and accommodate the moving breech bolt, the Sjogren has no receiver top and simply leaves the bolt slap back and forth in plain view, as a glance at the accompanying photos will show. Essentially, this "topless" receiver design is highly questionable for at least two reasons: First, the bolt traveling backward can induce flinching, since human eyes and nervous systems react with fear whenever something nears the pupil. Second, it leaves the action open to debris and weather, which could easily allow jamming



The take-down mechanism is very much like that of the Winchester Models 97 and 12.



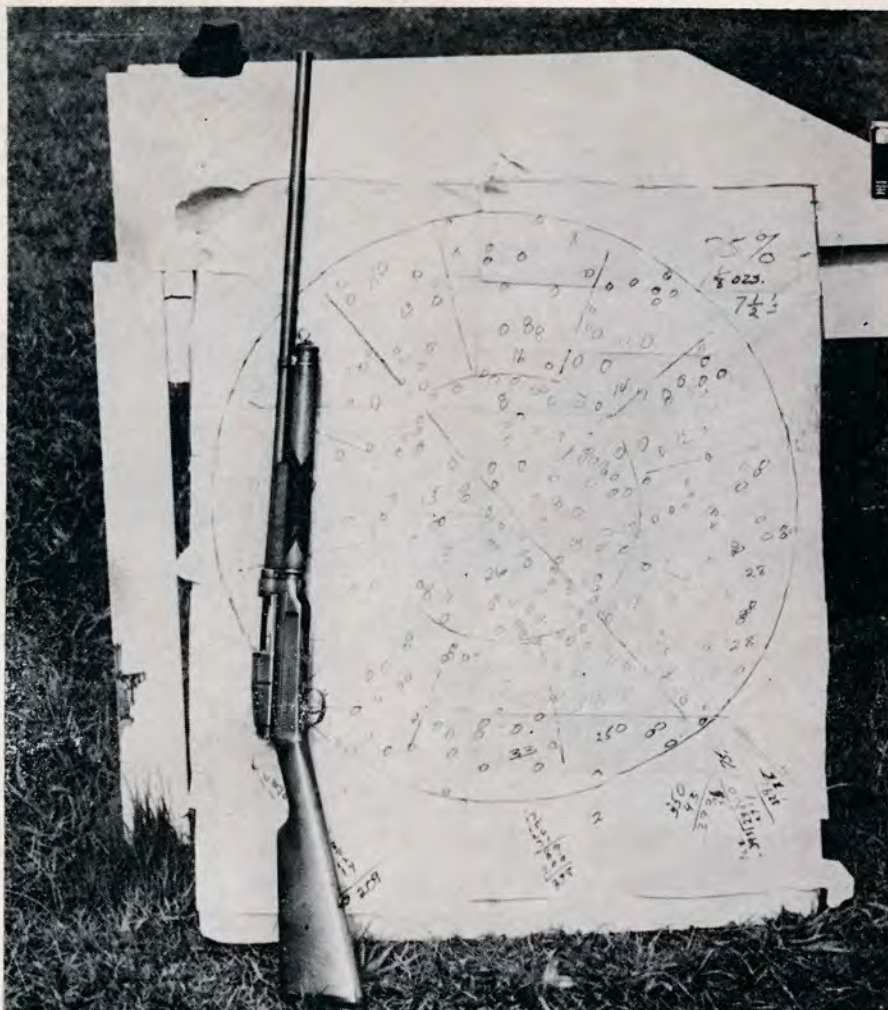
Above: Note handguard design and the "looks like parts are missing" design of the receiver. Below: Workmanship appears good, but didn't help performance.



# SJOGREN



Left side view of the Sjogren showing the breech block in its full recoil position. Date of production is somewhere between 1903-1907.



Probably the only good feature of the Automat was the fact that it printed patterns of about 75 percent using  $1\frac{1}{8}$  ounces of #7½.

and/or rusting.

But before getting involved with the Sjogren's performance, a closer look at its background and graceless features is in order:

Designed by a Swedish chap named Axel Sjogren, guns of this type were manufactured in Copenhagen, Denmark, as stampings on the right side of the receiver indicate. Patents for it are listed under the title "Systems Sjogren," and are dated over a period from 1903 to 1907. From those dates it would appear that Axel Sjogren was inspired by and was trying to build a better mouse trap than John M. Browning, whose patent for the then-revolutionary 5-shot autoloader of long-recoil styling was issued in 1900.

That Axel Sjogren's Scandinavian brainstorm failed to compete successfully against the Utah/Belgium creation is, of course, obvious. The Browning 5-shot is famous the world over; the Sjogren "Automat" is all but forgotten. Few of Sjogren's autoloaders ever got to the good old U. S. of A., and those that did sneak in are considered collectors' items rather than field guns. Researchers at the National Rifle Association inform me that most such weapons were sold in England; and if this is true—and there is no reason to doubt it—it may explain why Britishers have stuck with their traditional double-triggered side-by-sides.

I have found no data regarding the number of Automats marketed or how long production runs were continued. But judging by the way it functions (or, better yet, fails to function), it seems a safe bet that the Sjogren System abdicated well before Kaiser Bill did.

On the particular Sjogren autoloader to which I had access, both stock and fore-end were of straight grained European walnut that had little contrast and no particular beauty. The stock, being of Continental concept, had a straight grip and a relatively sharp comb with just the slightest hint of fluting. It had a drop at comb of about  $1\frac{3}{4}$ " with the heel bent to about  $2\frac{5}{8}$ ". The length of pull was  $14\frac{1}{4}$ ". In other words, it was conservative for its time and place, although today's gunner would consider it a mite "crooked."

On the other hand, the fore-end was something else. It begins in conventional form, covering both the tubular magazine and the space between magazine and barrel *a la* the Browning fore-piece. About half way to the magazine cap, how- (Continued on page 72)



# HUNTING THE DECEITFUL TURKEY

By MARK TWAIN

ILLUSTRATIONS BY E. L. REEDSTROM

Although this story is a bit off the beaten track format of *Guns Magazine*, we feel that everyone who reads it will be reminded of past experiences in the fields. Mark Twain was one of the few gentlemen of literary talent that wrote of his personal views and episodes of hunting and shooting with what appears to be a mixture of fact and fiction. Just where he drew the line of distinction, only he knew for sure.

Reprinted by permission of Harper & Row, Publishers, the story comes from the book "The Mysterious Stranger," Copyright, 1906 by Harper & Brothers. If you have never before read Twain, this story will be a delight, even for the seasoned hunter. See if you don't agree that it does, in an outstanding way, say "those were the days."

WHEN I WAS A BOY my uncle and his big boys hunted with the rifle, the youngest boy Fred and I with a shotgun—a small single-barreled shotgun which was properly suited to our size and strength; it was not much heavier than a broom. We carried it turn about, half an hour at a time. I was not able to hit anything with it, but I liked to try. Fred and I hunted feathered small game, the others hunted deer, squirrels, wild turkeys, and such things. My uncle and the big boys were good shots. They killed hawks and wild geese and such like on the wing; and they didn't wound or kill squirrels, they stunned them. When the dogs treed a squirrel, the squirrel would scamper aloft and run out on a limb and flatten himself along it, hoping to make himself invisible in that way—and not quite succeeding. You could see his wee



"Then the hunter . . . stood up and . . . sent a bullet . . . immediately under the squirrel's nose and down tumbled the animal, unwounded but unconscious."



"The hunter . . . imitated the turkey-call by sucking the air through the legbone of a turkey which had previously answered a call like that and lived only long enough to regret it."

little ears sticking up. You couldn't see his nose, but you knew where it was. Then the hunter, despising a "rest" for his rifle, stood up and took off-hand aim at the limb and sent a bullet into it immediately under the squirrel's nose and down tumbled the animal, unwounded but unconscious; the dogs gave him a shake and he was dead. Sometimes when the distance was great and the wind not accurately allowed for, the bullet would hit the squirrel's head; the dogs could do as they pleased with that one—the hunter's pride was hurt, and he wouldn't allow it to go into the game-bag.

In the first faint gray of the dawn the stately wild turkeys would be stalking around in great flocks, and ready to be sociable and answer invitations to come and converse with the other excursionists of their kind. The hunter concealed himself and imitated the turkey-call by sucking the air through the legbone of a turkey which had previously answered a call like that and lived only long enough to regret it. There is nothing that furnishes a perfect turkey-call except that bone. Another of Nature's treacheries, you see. She is full of them; half the time she doesn't know which she likes best—to betray her child or protect it. In the case of the turkey she is badly mixed: she gives it a bone to be used in getting it into trouble, and she also furnishes it with a trick for getting itself out of the trouble again. When a mamma-turkey answers an invitation and finds she has made a mistake in accepting it, she does as the mamma-partridge does—remembers a previous engagement and goes limping and scrambling away,

pretending to be very lame; and at the same time she is saying to her not-visible children, "Lie low, keep still, don't expose yourselves; I shall be back as soon as I have beguiled this shabby swindler out of the country.

When a person is ignorant and confiding, this immoral device can have tiresome results. I followed an ostensible lame turkey over a considerable part of the United States one morning, because I believed in her and could not think she would deceive a mere boy, and one who was trusting her and considering her honest. I had the single-barreled shotgun, but my idea was to catch her alive. I often got within rushing distance of her, and then made my rush; but always, just as I made my final plunge and put my hand down where her back had been, it wasn't there; it was only two or three inches from there and I brushed the tail-feathers as I landed on my stomach—a very close call, but still not quite close enough for success, but just close enough to convince me that I could do it next time. She always waited for me, a little piece away, and let on to be resting and greatly fatigued; which was a lie, but I believed it, for I still thought her honest long after I ought to have begun to doubt her, suspecting that this was no way for

a high-minded bird to be acting. I followed, and followed, and followed, making my periodical rushes, and getting up and brushing the dust off, and resuming the voyage with patient confidence; indeed, with a confidence which grew, for I could see by the change of climate and vegetation that we were getting up into the high latitudes, and as she always looked a little tired and a little more discouraged after each rush, I judged that I was safe to win, in the end, the competition being purely a matter of staying power and the advantage lying with me from the start because she was lame.

Along in the afternoon I began to feel fatigued myself. Neither of us had had any rest since we first started on the excursion, which was upwards of ten hours before, though latterly we had paused awhile after rushes, I letting on to be thinking about something else; but neither of us sincere, and both of us waiting for the other to call game but in no real hurry about it, for indeed those little evanescent snatches of rest were very grateful to the feelings of us both; it would naturally be so, skirmishing along like that ever since dawn and not a bite in the meantime; at least for me, though sometimes as she lay on her side fanning herself with a wing and praying for strength to get out of this difficulty a grasshopper happened along whose time had come, and that was well for her, and fortunate, but I had nothing—nothing the whole day.

More than once, after I was tired, I gave up

taking her alive, and was going to shoot her, but I never did it, although it was my right, for I did not believe I could hit her; and besides, she always stopped and posed, when I raised the gun, and this made me suspicious that she knew about me and my marksmanship, and so I did not care to expose myself to remarks.

I did not get her, at all. When she got tired of the game at last, she rose from almost under my hand and flew aloft with the rush and whirl of a shell and lit on the highest limb of a great tree and sat down and crossed her legs and smiled down at me, and seemed gratified to see me so astonished.

I was ashamed, and also lost; and it was while wandering the wood hunting for myself that I found a deserted log cabin and had one of the best meals there that in my life-days I have eaten. The weed-grown garden was full of ripe tomatoes, and I ate them ravenously, though I had never liked them before. Not more than two or three times since have I tasted anything that was so delicious as those tomatoes. I surfeited myself with them, and did not taste another one until I was in middle life. I can eat them now, but I do not like the look of them. I suppose we have all experienced a surfeit at one time or another. Once, in stress of circumstances, I ate part of a barrel of sardines, there being nothing else at hand, but since then I have always been able to get along without sardines.



*"I followed an ostensible lame turkey over a considerable part of the United States one morning . . ."*



*" . . . she always stopped and posed, when I raised the gun, and this made me suspicious that she knew about me and my marksmanship, and so I did not care to expose myself to remarks."*

**T**HE HOLSTER is often the most neglected item in the handgunner's gear. The gun may be well-cleaned and oiled, his grips may be custom made, and his handload charts may read like Einstein's Theory of Relativity. But, often as not, any old shoe is a good enough scabbard for his Old Tom. Well, the right gun in the wrong holster can be uncomfortable, ugly, or suicide, depending on the situation. On two different occasions I nearly lost my life when guns hung up in ill-fitting rigs. But those were the days when I was "leather lax." Today, after learning the hard way . . . I am "holster hip."

**The modern day holster  
is available in many different styles.  
Each has its own purpose,  
and you are sure to find one to fit  
your shooting needs**

Every handgunner, whether he's a hunter, a policeman, a target shooter, an undercover agent, or whatever, should think out the specific requirements needed for his scabbard, according to his particular demands. Here is a tally of the various holster types and their functions, along with some of the exceptional rigs I have used and tested in the field. Perhaps my findings will help you 'seek' out the leather that could save your hide.

#### **Field Holsters**

A 'field gun' holster should have a retaining strap. When hunting in thicket or on mountain sides, it's easy to take a spill. A retaining strap will *retain* your

**Text and photos by  
GENE LOVITZ**



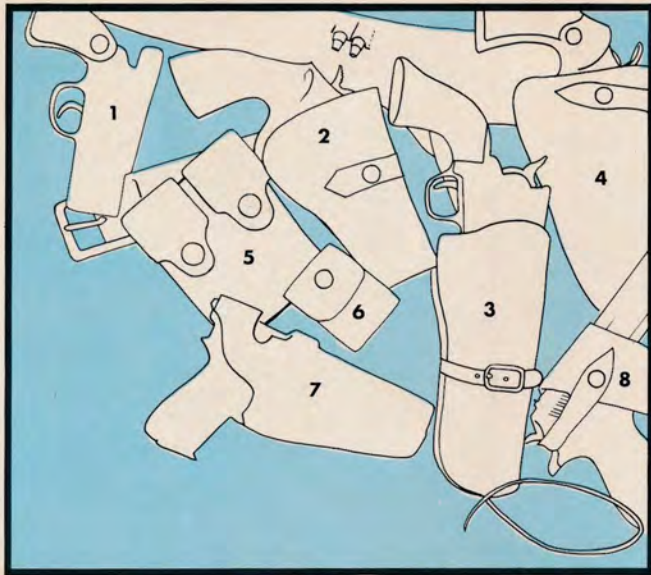
**HOLSTERS for today's**







# PISTOLMAN



#### Identification for Color Photo. pages 40-41

1. Colt #100 hip holster for Cobra. 2. Berns-Martin "Speed Holster" and belt. 3. Arvo Ojala No. 1 Quick Draw with roughout finish. 4. Bianchi Break Front. 5. Myres carved double 9mm clip case. 6. Lawrence pouch for spare Ruger Convertible cylinders. 7. A Seventrees' SSO Super Speed Scabbard for Hi-Power. 8. Whitco's Rap Round rig for the .45

gun. The retaining strap should be able to double as a safety strap when holstering semi-autos, so that the pistol can carry a round in the chamber with the hammer cocked, *with the strap blocking the firing pin*. Clamshell types are not desirable inasmuch as they make a popping sound when the gun is released, which doesn't help in stalking game. (Browning makes a dandy field holster for their 9mm Hi-Power. Its feature is that it accommodates two belt sizes.)

Moreover, a field holster should ride high on the belt so that it doesn't interfere with sitting down. If you are primarily hunting with a rifle, and your handgun is a back-up or second-gun, and especially if you are a bit heavy in the waist, a crossdraw is the holster you need, in order to keep your rifle from coming to grips with your handgun. (The Myres No. 4 *McGivern* model is a good 'field' crossdraw for DA revolvers. The Lawrence No. 120 can be ordered crossdraw for SA revolvers. The Safariland Model 25, for revolvers, and the Model 4, for autos, work out great as crossdraws or straight draws.)

Belts for field holsters, or for any hip holsters, should be tight as hell. No slack is needed. A holster that fits the gun tight, with a belt loose in the holster loop, can mean disaster. If the belt is loose, before you start to draw the gun you must first draw up the slack in the holster loop. Since a gun should be able to be drawn and fired in one second, and since it takes a full second to take up the slack with a loose belt, it makes for a bad scene.

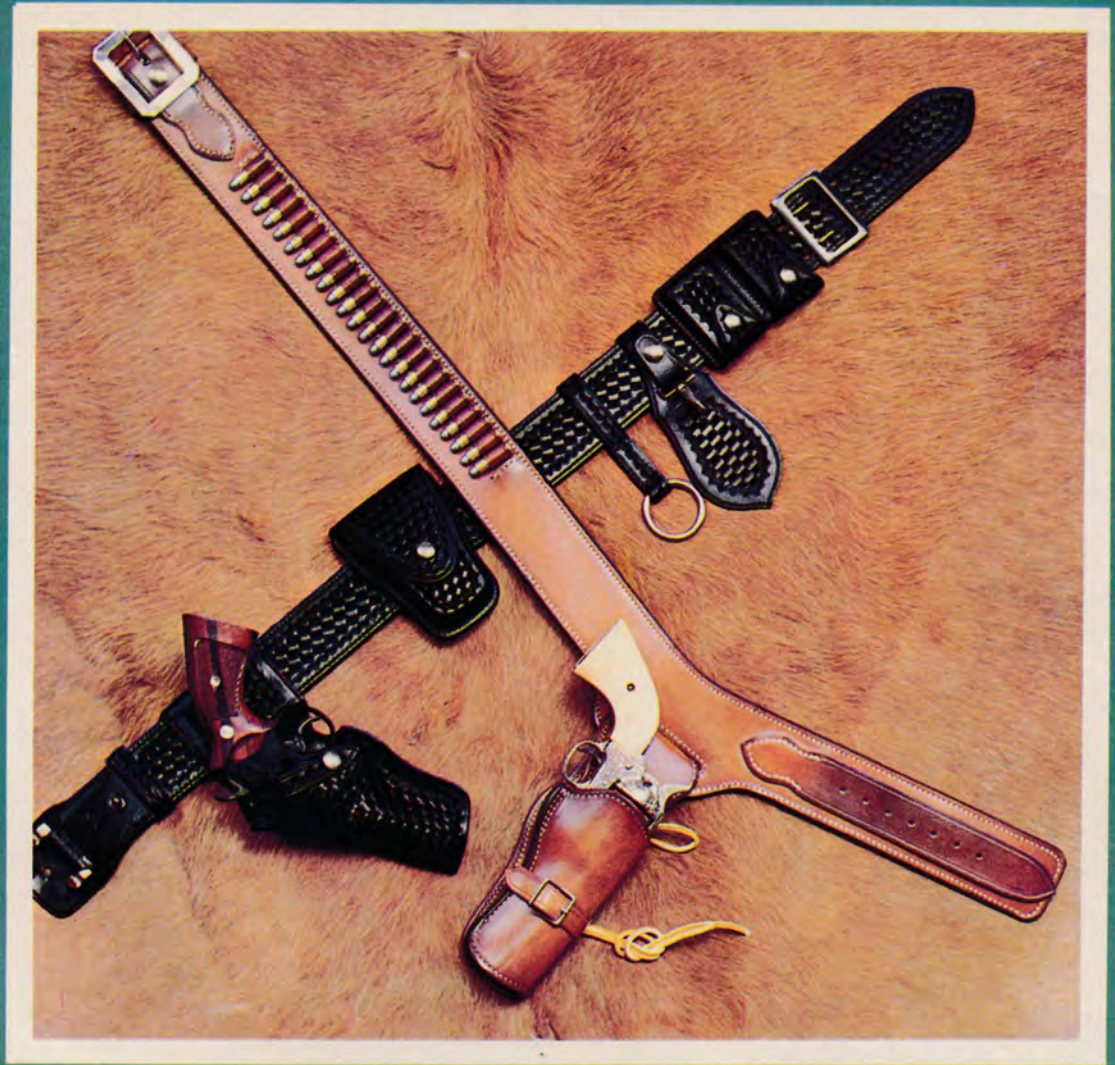
#### Military Holsters

Combat holsters have the same requirements as field hol-



Below, top to bottom: Bianchi Model 16 Flap Holster; Seventrees Horizontal Shoulder holster; Browning's carved border holster for the Hi-Power; Whitco's "Hideaway"; Myres "Quick Draw"; Left, top to bottom: Don Hume police "River" holster and belt; Myres 9mm clip case; Safariland "Roberts Rangelmaster" police swivel type holster; Triple-K "Secreto" inside-the-pants holster. Clips are oversize models by Triple-K, for the P-38 (15-shot) and Hi-Power (22-shot).





Color photo, courtesy of John Bianchi, shows the diversity of their leather products; from the fine law-enforcement rigs to the handsome Western outfit.

sters, with one exception; they should always be straight draw (for speed). Old-fashioned military flap holsters should be avoided in combat areas, since they are cumbersome and slow. Flap holsters, however, are fine in non-combat locales where protection from the weather is more pressing than protection from the enemy.

The Bianchi Model 7 "Ranger" combat rig for the .45 Auto is ideal for both military and field usage. I like its unique cocking shelf which enables you to cock and load as you draw. The "Ranger" is one of the few .45 Auto holsters that works well with the Browning Hi-Power.

Safariland's Model 75 Clip Pouch Holster is excellent for hunting or for war, since it accommodates an extra magazine. The Model 75 can also be used crossdraw. The Whitco "Rap-Round," which is made in sizes from .32 thru .45 for semi-autos, is fine for traveling light in the tropics. The "Rap-Round" is a stiff leather hoop that raps around the pistol, tying it to the belt. The Seventrees Model SDS "Sioux Dog-Soldier Scabbard" is a wet-form .45 Auto (also

made for the 9mm Hi-Power) combat holster of great merit.

#### Crossdraw

As to crossdraw, except when using the handgun as a second-gun, forget it. When it is the first-gun, or the only-gun, carry straight draw. Crossdraw is slower, and is less accurate. With all due respect to Johnny Ringo, who was fast at crossdraw, the crossdraw should only be used when hunting (and only then to keep the grips from knocking continuously with your slung rifle) or when holstered with a second-gun. A policeman can utilize a crossdraw to back up his straight draw service revolver.

The only exception I can think of in which the crossdraw might be better than straight draw, is in the case of, say, an 8 $\frac{3}{8}$ " Sixshooter, or some outlandishly long Buntline. Long-barreled SA revolvers can be fairly fast from high riding crossdraw holsters of the old Dragoon types. But, under most conditions, the straight draw is preferable.

If, however, circumstances call for crossdraw, then by all means use a rig specifically (Continued on page 58)



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# The Marshal's Colt

By George E. Virgines



**Not since Harry Truman has Colt made a presentation such as this month's cover gun**



**T**HE ULTIMATE achievement for a Colt collector is to own a cased presentation Colt. But to be personally presented with such a prized piece from the Colt Company is indeed a rare honor. The proud recipient in this case is Marshal Marvin Hershenson of the Last Chance Saloon located in the Chicago Gaslight Club.

This particular piece which is this month's cover gun is a Colt .45 automatic Government Model, Serial No. 294080-C and carries the following presentation legend on the right side: "TO M A R V I N HERSHENSON FROM HIS FRIENDS AT COLTS." The finish is satin nickel with Mexican silver engraved grips inlaid with gold, depicting historic emblems of Mexico. To add to the desirability of this rare gun is the absence of the patent dates usually found on the slide, making this Colt a one of a kind collectors item. Along with the gun is a letter from Colt authenticating the presentation and also stating that the inscription was engraved by A. Her-

bert, Colt Factory Engraver. It is reputed that the last such Colt Automatic presentation piece was made by Colt to Harry Truman, when he was President of the United States.

Besides being a gun collector, Marshal Hershenson is well known as a Fast Draw enthusiast and a fancy gun trick exhibitionist. In his role as Marshal of the Last Chance Saloon he is well remembered by thousands of customers of the Gaslight Club from all over the country. But his reputation does not stop there; he has performed for many charitable organizations, schools, clubs, and other worth while events. At all of his demonstrations he emphasizes respect and safety first in the handling of firearms.

Marshal Hershenson has the appearance of stepping out of the pages of Western History dressed in his black pants, boots, vest, and hat, with a fine pair of Colt Single Action .45's strapped to his waist. His nickel plated, 4¾ inch barrel Colts are a matched pair with Serial Numbers, 8790-SA, & 8791-SA, with gold and

silver engraved Mexican grips.

The Marshal has the distinction of holding commissions as a lawman from twenty-eight States. Also he has received a plaque from the Karate Association for his prowess with a gun and he holds a 3rd Degree Black Belt. Last but not least he holds the rank of Kentucky Colonel.

Hershenson is also the proud possessor of a matched pair of gold plated .22 Magnum Deringers, Serial Nos. 55 & 56 from the President of the Hy Standard Arms Company. To round out a very unique gun collection he was presented a pair of gold plated .30 caliber carbines with a plaque inscribed as follows: "Presented to Marvin Hershenson for his contributions to shooting and good sportsmanship by Universal Firearms Hialeah, Florida."

In contrast to the old frontier days when the marshal demanded that the gunslingers check their guns, Marshal Hershenson is going one better by collecting the choice guns of today.

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By **DICK MILLER**

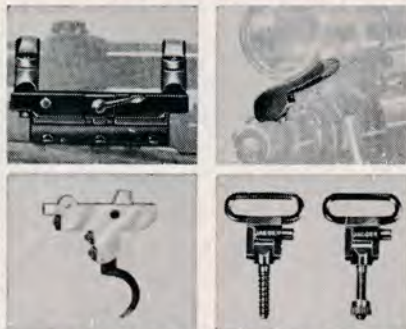
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**S**KEET is a young man's game, and trap is for the older shooter, in the minds of most clay target fans. While it is true that skeet gunners in their teens, twenties, or even thirties are tough competitors in the fast-moving, fast-reacting game of skeet, and equally true that some of the game's best trap winners are in the sixties, seventies or even eighties, it might be difficult to convince Paul Shepherd of Mountain View, California that skeet is a young man's game.

In February of this year, Paul was faced with a conflict in scheduling between two of his most avidly pursued hobbies. His gun club, the Peninsula Sportsmen's Club at Menlo Park, California scheduled its Annual Bill Rogers Open Skeet event on the same day that his golf club scheduled the annual club championship.

He just had to compete in both events, and compete he did. He arranged to get in an early foursome for the golf match, and shot a score which he felt might be in contention for the handsome traveling trophy, which has been won by some fine golfers. As soon as he had completed the eighteen holes of golf, he rushed to the gun club and signed up on the last squad of 12 gauge shooters in a field of eighty-seven entries.

While he was signing up, several of the squad members kidded him saying that it was useless for him to enter, because there were already two hundred-strights on the board, and that he would have to break the hundred just to tie. One of the shooters who told him he would have to break the hundred was Thalia Christner, who broke 96 to win the Ladies Trophy.

Undaunted, Paul announced to the group that he would solve this problem by breaking a hundred straight, and proceeded to do it! After he had smashed the century, several of the shooters recalled his remarks as he signed up, and commented that he must have really meant it when he said he would just have to break them all.

He faltered in the shoot-off with Carol Blum and Bill Powell, after fifty targets, with Blum the winner, and

Powell, who faltered in the first extra round taking first in Class AA, leaving Paul runner-up in the Bill Rogers 12 gauge event.

The reason it might be difficult to convince Paul Shepherd that skeet is a young man's game is that Paul is seventy-two years young, soon to be seventy-three. He retired in 1962 as Western Sales Manager for Savage Arms. In keeping with the rest of the story, he broke his hundred straight with a Savage Model 775 automatic, which was retired by Savage at about the same time as its owner.

Just so he would have a full day, he also entered the 28 gauge event, and broke a 90, good for the third place trophy in a group of fifty-one entrants.

As soon as the skeet shoot-off was completed, he called the golf club and found that he was tied for first with a much younger man. It was decided that they would have a sudden-death playoff on Monday morning. Paul birdied the first hole, which gave him the golf championship and a handsome trophy. All in all, it wasn't a bad week-end for a man who has been on the social security rolls for nigh on to eight years. And, don't try to convince Paul Shepherd that either skeet or golf are the exclusive provinces of the young. He may take up more sedentary pastimes when he gets old.

Now, back to the Bill Rogers open. Gordon MacKenzie, last year's 12 gauge winner, took second in AA this year, for his 99. Greg Webster gained the junior trophy with a ninety. Steve Rosati was the Class A winner, Class B went to Alex McCabe after a deadlock with Fred Lanini, with A. B. Davis taking Class C. A team from the 12th Naval District took the five-man military trophy (Bennett, Walan, Branch, Jasman, and Blumer).

Phil Murray bested Gregory Stout for the 28 gauge title, after both had broken 99x100 in regulation distance. Stout took the Class A trophy, with the hardware in Class B going to Robert Loring. Mike Pelkey was high in Class AA. Steve Rosati was high in Class C. Mary Smith topped the

ladies in 28 gauge, and Greg Webster showed the way for the juniors.

Gordon MacKenzie's hundred straight in 20 gauge gave him the trophy uncontested. Virginia Stout was the ladies champ in twenty gauge, while Greg Webster again topped the juniors. The Bill Rogers High-Over-All went to Phil Murray with 295x300.

I said in the beginning that trapshooters in their eighties do win major trapshooting championships. These instances are numerous, but if the reader needs documentation, Fred Enz from Illinois recently topped a field of 194 shooters in a Skyway Gun Club handicap event at St. Petersburg Florida less than a year after recovering from a major operation, and at the age of eighty-one! He didn't start shooting trap until he was forty-five, which might be good news to someone you know who is approaching senior citizen status but is without a hobby.

A recent issue of TRAP & FIELD, the trapshooter's magazine, reports that in 1964, the Amateur Trapshooting Association had 22,589 paid annual members, and life membership certificates had reached number 6,526.

Just five years later, on June 30, 1969, the ATA statement showed 41,810 annual members, and life certificates had reached 8,980. This growth is both enviable and fantastic in any sports league, and is good ammunition when anyone questions the popularity of shooting.

One of the many reasons behind this booming growth rate is the fact that the clay target sports do provide teenagers and octogenarians an opportunity to compete side by side and on an equal footing, and in both sexes. What other organized sport can make this claim?

Bob Shuley of Roselle, Illinois, who is still a young man, topped NSSA skeet gunners for 1969. Shuley broke 2,709 of an official 2,750 targets for a .9867 average. Paul Laporte of Laval des Rapides, Quebec topped the 12 gauge statistics with an average of .9981. Tom Jones, from Birmingham, Alabama showed the way in twenty gauge with a .996 average.

William Peale, Jr. and Bob Shuley

shared .988 to lead the 28 gauge contingent, and Peale took .410 honors uncontested for his mark of .972. Sallie Durbin from Kirkwood, Missouri topped the distaff contingent by smashing 2,700 of 2,800 total mixed targets for a percentage of .9676. She added the 12 gauge honors with .988, and .410 class with .921. She shared 28 gauge laurels with Marjorie Annan of Aspen, Colorado, both of whom cracked .970 of their targets.

Ann Yancey from Gastonia, N. C. was the twenty gauge victor for 1969 at .972. The professional or industry division was all Barney Hartman, who made a clean sweep of all gauges. Barney hails from St. Lambert, Quebec. Top man in the International statistics for 1969 was Bob Rodale of Emmaus, Pennsylvania with a .974 mark. Daphne Muchnic of Atchinson, Kansas carried the high 1969 woman's average of .837.

The NSSA 1970 World Skeet Championships will be hosted by Forest City Gun Club, Savannah, Georgia July 25, through August 1.

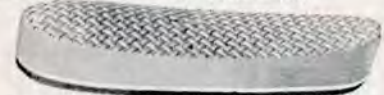
The 71st Annual Grand American Trapshooting Tournament will be held on the ATA grounds at Vandalia, Ohio August 24 through August 29, with Preliminary Days August 21-23.

Whether you fire a target or not, either one of these national clay tournaments are intensely colorful events and could prove to be the highlight of a vacation trip for the whole family. One word of caution—if you plan to stay overnight in either area, be sure to have your hotel or motel reservations made before your trip. If you plan only a day to look in on the two big shoots, you should have no trouble finding accommodations within an easy day's driving distance.

1970 offers the vacationer a prime chance to see shooting at its very best, with these two national and annual fixtures in shooting tournaments, plus the NRA International Championships in all types of shooting at Phoenix, Arizona July 13-26, and topped off by the ISU World Championships also in the United States, at Phoenix, October 12-26. It is probable that never again will so much be offered in any one year—1970 is your big chance!

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## WHERE TO HUNT

(Continued from page 32)

holdings around North Carolina total approximately 640,000 acres. The bulk of this acreage is in the coastal plain of North Carolina with some minor holdings in southeastern Virginia and the piedmont area of North Carolina.

Intensively managed for timber production under Weyerhaeuser's High Yield Forest concept, Norman says, "We also endeavor to discover and utilize other public benefits which spring from forestland. Also included in our acreage are several thousand acres of marsh and agricultural lands. Game species include Virginia deer, black bear (a decreasing species in many areas), ducks, quail and small game such as squirrel, rabbits and foxes."

A hunting lease program was begun in 1967 beginning with approximately 7,000 acres leased to one hunt club. The acreage has increased to 65,000 acres in the 1969-1970 hunting season. "This acreage," Norman notes, "lies in 12 counties in coastal Carolina and Virginia and is leased to a total of 18 clubs." The remainder of the acreage is open to free public hunting except for limited areas which must be temporarily closed for the safety of the public and Company personnel due to operational reasons. Norman goes on to say, "No permit is necessary on the non-lease land. Approximately 500,000 acres of Weyerhaeuser's North Carolina Operations land are open to free public hunting during the 1969-1970 season." Weyerhaeuser personnel, to date feel the lease program has been highly successful. The clubs have effectively reduced illegal hunting and trash dumping and have frequently been responsible for the early detection and suppression of fire.

"Most of the members," Norman points out, "live in proximity to the leased property."

Access to the "free" hunting areas is provided by private and public roads. However, during inclement weather, use of Company roads is discouraged because of attendant damage resulting from vehicular use.

The North Carolina Operations of the corporation will hire a game biologist shortly whose prime duties will include, "administration of the hunting lease program and study and making recommendations for the institution of hunting programs not currently in existence within this operation." This will include the hunting of quail, doves, and other small game on agricultural properties and the up-

grading and better utilization of natural marshlands for hunting of migratory waterfowl. Norman reveals, "He will be responsible for habitat enhancement and will advise on more intensive multiple use of our property for production of both trees and wildlife. He will be valuable to our forestry staff in revealing additional opportunities for game management."

It is expected a waterfowl facility of about 500 acres will be ready for hunting on a permit basis by the 1971-1972 season. An impoundment in the Weyerhaeuser Carteret County marshes, it is being constructed in cooperation with the Mosquito Control Program of Carteret County and the State of North Carolina.

Norman gives special commendation to "the fine cooperation that the Company has received from the Game Division of North Carolina Wildlife Resources Commission. All of the Commission's personnel from its chief to the protectors in the field have been consistently helpful." In the study of marsh potential and salt marsh impoundments, he singles out Otto Florschutz, Bureau of Sport Fisheries and Wildlife, Department of Interior, as "an invaluable advisor."

On the other side of the coin lies the public utilities with their land holdings, most of which are open to the hunter. WMPCO is a prime example. This Wisconsin-Michigan electric company has a lot to offer the hunter. In acreage, certainly not as much as Weyerhaeuser. Still, a great deal in an entirely different locale.

Nancy Bier of WMPCO's Public Relations Department says, "All of our recreational lands are open to hunting. There are no restrictions. You must, of course, observe the appropriate state laws and regulations."

WMPCO's company publication, Outlet, says in a recent issue, "There are 37,000 acres of forest land around the reservoirs and rivers. But most all of WMP Country is wilderness-wild, untamed, unspoiled. And that's the way the Company hopes to keep it."

"Since the late 1940's the public (the hunter) has been encouraged and made to feel welcome in WMP Country."

Outlet goes on to say, "This northern vacationland is probably best known for its summer sun and fun. But, WMP Country is more than a summer playground. In the fall the hunter is welcome to shoot deer, partridge, goose and bear during their




respective seasons. . . WMP Country is for everyone and every season."

An American Forest Institute reports seems nationally to best sum up the hunter's good fortune. It states: "This fall, hunters can roam 61.4 million acres, roughly the equivalent of 61 million football fields. Hunters may

seek game on 49.2 million acres without even a company permit or fee. On another 7 million acres a permit is required. A small fee is charged on only 2 million acres. More than 86,000 miles of company roads give hunters easier access to the game."

Of these 61 million acres only about

4 million acres have been dealt with in any detail in this article. That leaves the potentials of 57 million acres still to be explored by the hunting enthusiast. What more can one say but, "Go get 'em—tiger" Or maybe more appropriately, bear or elk, squirrel or mallard. 

## PANEL OF EXPERTS

(Continued from page 17)

### Shotgun Books

I am very interested in shotguns and would like your suggestion as to some books I may buy covering types of actions, makes, and models and values of different shotguns.

L. S. Fittipaldi

Colorado Springs, Colo.

I would suggest two books that might interest you. One is "The Shotgunner's Book" by Col. Charles Askins, 365 pages, \$8.50. Description: Concise coverage of everything from design and manufacture to shooting form and ammunition. The other is: "Shotguns by Elmer," Keith, 307 pages \$6.50. Description: Guns and their accessories from history to ornamentation, their ammunition, and the practical uses of American, English, and European Arms. Both books are available from Stackpole Books, Box 1831, Harrisburg, Pa. D.M.

### Colt Conversion

I have a .38-40 Colt Single Action in good condition in which I have used, with no apparent trouble, 10 gr. Unique with a 169 gr. bullet. With black powder, such as the caliber was originally designed for, do you think ballistics could be safely improved? If so, what would you suggest as a load in this caliber for this bullet?

J. D. Martin, M.D.  
El Paso, Texas

Without a serial number, I do not know what year your Colt was manufactured, but there is a good chance it was meant for black powder only anyway. I checked specifications of black powder factory loads of the 1890's for .38-40; U.M.C. used a 180 gr. bullet with 40 gr. of powder; Winchester used a 180 gr. bullet backed by 38 grs. You could use 40 grs. of FFFg black powder and obtain a flatter shooting cartridge because of your lighter bullet. R.O.A.

### AK-47 Ammo

I have been fascinated by Iron Curtain weapons for years and especially the AK-47. I would like to duplicate

the Soviet round and try it out in a test gun. Can you give me any and all pertinent information on this shell?

Fred Dickman

Bensenville, Ill.

7.62X39MM M43 Soviet cases may be formed from 6.5X54mm or 6.5mm Carcano cases available from Norma. RCBS can furnish a forming die set for this purpose. Necks will require reaming. Simply run the cases through the forming dies in the proper sequence, trim to length, then ream the necks. Use any 130 or 125 grain .308" diameter bullet and begin with 20 grains of IMR 4198. From that charge, work upward in 1/2 grain increments until you obtain reliable functioning. G.N.

### Barrel Damage?

I have a Model 100 Winchester in .308 caliber and was given 100 rounds of military ammo. The ammo is head-stamped TE 56. My friend tells me that if I were to shoot this stuff in my Winchester, it would destroy the barrel by blowing the rifling right out the muzzle. Is this true?

John Tarnowski  
Milwaukee, Wis.

I can't quite place the T.E. 56 head-stamp on your ammunition,—but no one makes ammunition that will blow the rifling out of your gun. If you only have 100 rounds of this ammunition, I would fire it without any worries. Armor-piercing bullets have a solid hard core and are more harsh on barrel life than regular lead core ammo,—but a small amount of this should do no damage to the barrel. W.S.

### Rolling-Block Pistol

Can you tell me the value of a Remington 1891 Target Model RB Pistol. It is in a .22 caliber, has an 8" barrel and has quite a bit of case-hardening on the frame. Over all condition is NRA very good.

C. H. Jordan  
Chatom, Ala.

The model 1891 single action target pistol was made in .22 RF, .25 RF, .32 RF, .32-20, and .32 Smith & Wesson.

It has also been made with 10" and 12" barrel lengths. The fact that only a few more than a hundred were manufactured by the Remington Arms Company, it has a good collector's value . . . and condition of the pistol will set the price. From your description I would evaluate your Remington at approximately \$250 to \$300. R.M.

### 1866 Winchester

I have a friend who has an 1866 Winchester with brass frame. Can you give us any idea as to what it is worth?

F. A. Bolin

Jacksonville, Fla.

Two important factors should be known before a price or value can be given on your 1866 Winchester . . . first is it a rifle or a carbine, and second, condition. Without the two I would try to give you a rough idea as to approximate value . . . a 66 in good condition would bring at least \$150. One in fine condition or better could bring as high as \$500. One in new condition or engraved could bring as high as \$2000. R.M.

### .32-20 Colt

I have a .32-20 Colt Police Positive and would like to know if it is possible to change the barrel and cylinder to .38 Special or .32 New Police. The gun is in very good condition, what is its present value?

K. V. Hubbard  
Pittsburgh, Calif.

I would suggest you not consider changing calibers on the old Police Positive Colt pistol. No parts, or very few parts are available for it, and it is quite doubtful if the conversion you mention can even be made,—and certainly not at any reasonable cost. My Feb. 2, 1970 Remington ammunition list shows Index No. 4232, caliber .32-20 ammunition. This is the lead-bullet load that should be used in pistols. I have a box on my shelf here and see no reason it should be difficult to get. The collectors value of your gun is not very high,—but I'd say it is certainly worth keeping in original condition. W.S.

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## S&W "ESCORT"

(Continued from page 29)

the plant, snagged a gun at random off a rack that was awaiting inspection, and put 60 rounds of mixed ammo through it with no stoppages of any sort. My shooting consisted of both slow fire accuracy testing and rapid fire function testing with the gun shot right side up, upside down, and on either side. Judging from experience to date, this may well be the most reliable .22 semi-auto pistol I've ever fired, of whatever type.

The fact remains that .22 ammo is not only jam prone, but varies enormously both from brand to brand and from lot to lot of the same brand. I remember one occasion when two lots of high speed .22 Long Rifles of the same brand were found to vary 20% when pressure tested. The wise purchaser then will try a number of brands in his gun, then by a brick or two of high speed hollow points from a lot that proves to perform well. Poor functioning during a plinking session is of no great moment, but business loads must deliver. And like all .22 self feeders, this one should be cleaned thoroughly after every firing lest wax and residue build up where it shouldn't.

The Escort's outstanding accuracy was a factor I hadn't expected. First time on the range with it I rat-tatted a magazineful into a half-dollar size group at 7 yards. Bench rested at 40 feet, it gave me 4 out of 5 into a murderously tight half inch, with the flyer only an inch out. This of course is not average, but the fine barrel, excellent sights, 4½" sight radius (an inch longer than a snub revolver offers), adequate trigger reach, and relatively ponderous 14-ounce weight all make bragging groups come oftener than they might. And the gun would pile 5 into an inch and a half with startling regularity. Any gun this size, however, is extremely sensitive to shooter error.

The limiting factor in accuracy is the trigger pull, and because of the surface hardened sintered searage, you'll just have to live with it as it comes from the factory. The production gun I shot had a heavy but crisp and creep-free trigger—it wasn't ideal, but could with some care and determination be mastered.

From a practical standpoint, many of the guns faults and virtues alike spring from the design of the slide and its engagement with the frame, which arrangement was borrowed intact from the Model of 1908 Bayard.

Neither the frame nor the slide have rails, since they really don't contact each other. The barrel is permanently mounted in an extremely low position inside the frame. Just above the chamber is a larger upright lug from which a cylindrical bar projects horizontally above the magazine well, looking for all that's honest like a PPK barrel put in backwards. A tunnel of the proper diameter to accept this bar is drilled into the slide above its breechlock portion. The slide then actually floats above the frame proper as it rides this cylindrical bar or tube.

The tube is solid at its rearmost end, but is hollowed for most of its length to accept the recoil spring, which is compressed inside it, as the slide recoils back, by the front sight which straddles and impinges the recoil spring guide rod. The recoil spring therefore is mounted in the slide, parallel to and above the barrel.

The slide plus components (recoil spring, guide rod, extractor, firing pin, etc.) is on the beefy side at about 5 ounces. What with this ample inertia, the recoil spring is correspondingly light, and is a comparatively minor force to be overcome in opening the breech. When the slide recoils or is retracted rearward, the back of the breechblock hits the top of the hammer where the leverage is best and rocks it back against the resistance of the mainspring. The underside of the firing pin head is undercut so as not to interfere at this point. Partway through the cocking stroke, the top of the hammer swings out of reach of the breechblock, and the job is taken over by the radiused lower shoulder of the breechblock's engaging a corresponding cam surface on the hammer. These engagements are very carefully designed to give constant, easy resistance during cocking; there are no perceptible peak loads to be overcome at any specific point.

As a point of caution when cocking to load the chamber, the slide must be jacked back and released sharply, abruptly, snappily, if the recoil spring is to carry it forward with enough energy to chamber a cartridge. Any tendency whatever to easing the slide forward will result in partial feeding.

It's indeed fortunate that the slide operates so effortlessly, for a cocked and locked carry is not practical with the Model 61—the chamber should be carried empty and the slide jacked for the first shot.

Mounted on the left of the frame,

with its tip protruding from under the grip panel just behind the trigger, the safety is reasonably well positioned and swings on a long arc, but I found it virtually impossible to disengage quickly. It presents a vertical surface to the thumb rather than a shelf. It is stiff, and shielded by the grip panel so that disengaging it in an emergency would be a task.

A cunning touch is the cocking indicator pin which, activated by a cam face on the side of the hammer, protrudes through the left grip near the tang when the hammer is cocked. This does not show whether or not the chamber is loaded, only if the pistol is cocked.

If the gun fails miserably on instinctive pointing, you're in like Flynn if you have light and time enough to use the sights, remember. And they are excellent, giving a Patridge picture which is not so much big as it is open and distinct. The front blade is .080" wide, and sits in a .100" square notch 4 1/2" behind it. Smith would be doing something worthwhile if they put sights half this good on the Chief's Special.

And it's that friendly front sight that's the key to disassembling the gun. The nose of the mainspring guide rod protrudes through the front of the slide where you'd normally expect the muzzle to be. Push it in, and when it's flush just pluck the front sight out. The recoil spring and guide rod may now be pulled out the front if they haven't already left out of their own accord. With the spring and rod out, pull the slide as far back as it will go, then lift it straight up and off. Assumedly you had enough smarts to empty the gun first off.

To detail strip it (if you must) remove the grip panels taking care not to lose the cocking indicator pin and spring. Three parts, the safety, the disconnecter, and the ejector, are mounted between the left grip panel and the sideplate. Unscrewing the ejector retaining screw frees it, and its removal frees the other two parts. With these off, remove the three screws which hold the sideplate on, and drift the three pins which are visible far enough in to free the sideplate for removal.

With the sideplate off, cock the hammer, insert a paper clip through the hole in the lower end of the mainspring compression strut, let the hammer go forward, and lift the spring assembly out. Now lift the trigger off its pin, bringing with it the trigger bar and the trigger spring. Then there's nothing much left but the hammer, sear, and magazine latch, all of which remove in logical order.

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The extremely low barrel of the Model 61 would be a selling point for a .380. For a .22 though it offers no advantages, merely serving to make the gun overall since the slide must be mounted atop it rather than around it. The 3 1/16" height of the Escort compares poorly with the 3 1/2" Walther TPH considering that the latter's magazine accepts 6 rounds of .22 LR. And since the Walther is double action, intended to be carried with the chamber loaded, the comparison is actually 7 rounds vs. the Escort's 5. The Beretta Model 20, at 3 3/8" tall, is smaller than either of these yet carries 9 rounds of .25 ACP when fully loaded. True, .22 is better than .25, but 9 is a damsight better than 5. Both the Walther and Beretta weigh less than 11 ounces, both point well, and both are double action.

Pocket automatics have a legitimate purpose, particularly in law enforcement. Smith & Wesson's effort may not be the best of its type, but thanks to the Gun Control Act of 1968 its

DATA TABLE	
Type:	Pistol, semi-automatic, magazine fed
Operation:	Blowback, unlocked breech
Caliber:	.22 Long Rifle
Mag Capacity:	5 rounds
Trigger:	Single action
Weight Empty:	14 ounces
Height:	3 1/16"
L.O.A.:	4 3/16"
Bbl. Length:	2 1/8"
Rifling:	6 gr. broached
Sights:	Fixed Patridge, .08" front and .1" rear
Sight radius:	4 1/2"
Manufacturer:	Smith & Wesson, Inc., Springfield, Mass.
Price:	\$46.50 in blue finish; \$55.50 in nickel

one of the best that Americans will be permitted to have. Thus its popularity is ensured, and it doubtless will do an adequate job. 

## NRA SHOW

(Continued from page 23)

target sights and a good fitting stock. This rifle is quite widely used throughout the Scandinavian countries for match competition.

The Charter Pocket-Target .22 revolver, as made by Charter Arms Corp., Bridgeport, Conn., is a six-shooter in .22 long rifle caliber. It has a weight of 18 3/4-oz, a barrel of 3 inches and an adjustable rear sight. The front post is patridge by type. All the steel parts are polished and blued and the aluminum alloy parts are black anodized.

The smart outfit who commenced the commemorative firearm hangup is Colt. They got out the first commemoration model in 1961. This was a .45 Single Action to do honor to the 125th birthday of the company. Since then the firm has produced 108 various limited edition shooting irons. This has included production as limited as only 10 of the Fort Findlay cased pair, and as many as 24,114 of the Civil War Centennial pistol. Most of the commemorative guns go from about 500 to 1,000 of the limited edition. Right now, and shown at the NRA, were the handsome .45 Gov't. models doing honor to the two main theaters of World War II, the European and Pacific zones. These special Colts quickly go up in price; none probably more handsomely than the Gen. John Hunt Morgan Indian Raid Scout which was made only to 100 units and

sold for \$74.50. It is now worth \$550.

The Venture Grade Charley Daly shotgun (Charles Daly, Inc., New York) is made by Miroku of Japan and is offered in both 12 and 20 gauge. The model on display at the show was a handy little twenty. It had 26-inch barrels bored modified and imp-cyl., ventilated rib, single trigger and non-ejectors. Weight is about 6 3/4 lb. There is a full line of Daly scatterguns, in all the gauges, and for field, trap and skeet shooting.

Reinhart Fajen has a new rifle. It is called the Fajen-Haskins and has been designed by Jerry Haskins, who was formerly with the Champlin-Haskins Co. The new rifle was shown only in prototype at the NRA bash. There will ultimately be three receiver lengths and the line will be made for the short, medium and magnum length cartridges. The new action is slick and clean with three locking lugs up forward, the shortest bolt lift on any rifle, a novel bolt release which is located in the same button that drops the floorplate, and an adjustable trigger. There are two recoil bolts, one the conventional kind, the other formed by a clever shoulder on the bottom side of the receiver. The safety is the shotgun type located on a tang extension. This action is handsome and appealing for its clean lines and total lack of abrupt shoulders, angles, and outside acces-

sories. This one looks like a real comer!

**Federal Cartridge Corp.** now loads 23 centerfire cartridges. Sixteen of these are in the rifle line and the remaining seven are for the handguns. Just recently added is a 158-gr. .357 Magnum, 110-gr. .30 Carbine, a 123-gr. in 9 mm Luger, together with the .380 Auto, .32 ACP and the little .25 Auto.

The **Garcia Corp.** Taneck, N.J. imports the full line of Beretta shotguns. One of the most appealing scatterguns at the show was the GR-2 model. It is a side-by-side, made in both 12 and 20 gauges, with a Greener boxlock type, two triggers, non-ejector, ventilated rib, barrels of either 26 or 28 inches and a good looking checkered stock of European walnut. The GR-2 lists at \$260. It is one of a variety of Berettas which include over/under, pump and autoloaders.

Gerber, the knife people at Portland, Ore. (**Gerber Legendary Blades**) makes a sharpening steel which is a real humdinger. You can put an almost instant edge on the toughest chromium steel hunting knife with the steel. It is shaped like a wedge to split logs and this makes it ideal to go through the pelvis when butchering out critters like elk and moose.

**LA Distributors**, Brooklyn, N.Y., had a crowd all the time around the booth because of the fascination for the Erma-Werke pistols. These are look-alike replicas of the famous Luger. One is a .22 caliber, another is made in .32 ACP and .380 ACP calibers. These pistols are scaled down versions of the original. Then there is the sturdy old 9 mm, with the novel double action mechanism.

The new Leupold 6X hunting scope is the latest offering from this fine old-line company. The 6X has the advantage of the same weight and length as the conventional 4X glass. It has a length of 11.7 inches, a weight of only 10½ ozs. and a field at 100 yards of 18 feet. Eye relief is 3.8 inches and it is waterproof. **Leupold & Stevens Inc.**, Portland.

**Marlin Fire Arms Co.** has a new stock finish, called "Mar-Shield". It is applied electrostatically and is both a protection against rough handling in the field and also does a remarkable job of rendering the stock impervious to the elements. The stock is first dipped in a salt solution, then sprayed and an electrical contact gives it a negative charge. The negatively charged stock is then positively charged with the Mar-Shield finish which is sprayed on. Afterward it is baked through a series of ovens and is finally ready for assembly to the firearm.

**O. F. Mossberg & Sons** has a new pair of automatic twenty-two rifles, the Model 430 and 432. The Model 800 rifle made in conventional styling and also as a Mannlicher, now chambers two more cartridges; the 6.5 mm Remington and the .350 Rem. Magnum. Besides this centerfire Mannlicher there are two .22 rifles, the Model 340M and 640M in the same out-to-the-muzzle configuration.

The new 110-gr .38 Spl. load from **Norma-Precision**, South Lansing, N.Y., is a real ringtailed tooter! The hollow point slug is driven at 1542 fps MV with an attendant—and impressive—580 ft lb muzzle energy. Put up in nickel-plated cases the load was easily the attention-getter at the Norma booth.

The Mini-Mag .22 long rifle cartridge is loaded by **Omark-CCI** and is a high speed number. There is another loading, the Mini-Group, that is intended for target shooting. Velocities are reduced in these cartridges. The novel and exceedingly practical packaging which the Lewiston, Idaho, firm has developed for their twenty-two cartridges represents some original engineering. The cartridges are put up in a plastic container with a sliding transparent closure. The box holds 100 rounds and these can be dumped either 5 or 10 at a time. Too, the shooter is always aware of how many cartridges he has remaining.

**Harrington & Richardson Co.** besides having a full line of rifles, both centerfire and rim, together with various revolvers, have now added a .22 cal pump action rifle made by Rossi of Brazil. This little plinker is a reproduction of the now discontinued Winchester Model 1890 rifle. H&R also has a side-by-side scattergun in 12, 20 and .410 gauges made by Rossi.

Catering to the needs of the Olympic rapid fire pistol shooters, **High Standard Mfg. Co.** has made a series of special .22 auto pistols. These guns are all of .22 Short caliber and are intended for the silhouette match which calls for hitting 5 targets in 4 seconds.

Not only a full line of rifle, pistol and shotgun powders is carried by the **Hodgdon Powder Co.**, Shawnee Mission, Kansas, but now the firm displays primers, .22 rimfire ammo, bullet lube and shot cups so that shotloads can be fired in the .38 Spl. or .357 Magnum. Showing the greater part of the 76 different bullets made by the **Hornady Mfg. Co.**, Grand Island, Neb., it is altogether likely that there was as much or more interest in the new .17 cal bullet which Joyce Hornady showed off at the NRA get-together. This tiny slug weighs 25 grains and has followed the Secant Ogive shape like the other more

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accurate slugs in the line. The prompt development of this little .17 has done a great deal to sustain interest in the pipsqueak caliber.

The cops have to keep belt and holster beautifully shined. **Don Hume Leathergoods**, Miami, Okla., has made the job somewhat easier by the introduction of holsters and belts, ammo pouches, handcuff cases, etc. of a plastic called "Corfam." It does not need polish and yet retains a pristine hue throughout its long life.

**Ranger Arms, Inc.**, Gainesville, Tex., showed off a handsome line of both right and left-hand bolt action rifles. These included a series of Mannlicher types, and others with thumbhole stocks, laminate jobs, and the whole display notable for excellent finish of both wood and metal. Joe Dubiel, son of the famous rifle maker of a generation ago, John Dubiel, is chief barrel maker for Ranger.

The new Redfield hunting scope called the "Widefield" continued to claim the most of the attention at the **Redfield Gun Sight Corp.** stand. This glass with 25% more field of view is a real bell ringer! But this wasn't all the Denver firm had to offer. They also have a variable power spotting scope. Called the "Fifteen-Sixty" it can be used by both rifle marksmen and big game hunters. A quick twist of the adjusting collar serves to change power through the full range. The new scope comes complete with sturdy scope stand.

The new 5 mm rimfire Magnum cartridge and the rifles for it, attracted a lot of attention around the Remington booth. It was speculated by members of the U. S. Army Marksmanship Training Unit that they would fire this little cartridge in the running boar match in the World and Olympic shooting events. It has been decided by the International Shooting Union to go to a .22 caliber for these matches. This would mean most competitors would fire the .22 long rifle. The new 5 mm Remington round has approximately one-third greater velocity, an important advantage.

As at the NSGA Show in Chicago earlier this year, the **Remington Co.** showed off its new Model 1100 twenty gauge 6½-lb autoloader, the gun sure to be popular with all uplands gunners this fall. Also the Model 700 rifle for the recently standardized .25-06 cartridge.

The Model 170 rifle by Savage was a big hit. This is the pump action .30-30, made to sell for less than one hundred bucks, retail. **Savage Arms Corp.** made a presentation of their commemorative Model 1895 rifle to the NRA Arms Museum during the

annual meeting. This is a limited edition rifle and is a faithful copy of the original. There was a lot of satisfaction expressed by the shooters as they paused at the Savage booth over the fact that the company will now import the extraordinarily fine Eley .22 target ammunitions.

We used to think we had to go to a custom carver to get a pair of tailor-made pistol grips. This isn't so anymore. Now **Jay Scott, Inc.**, Garfield, N. J. offers a full line of stocks and these provide all the refinements. Such things as thumb rests, flaired butt, swell on the right side, excellent checkering, and made of selected walnut are things typical of the target stocks made by this firm.

The **Smith & Wesson Co.** showed off the new pipsqueak .22 auto pistol, the lilliput known as the "Escort" model. Along with it there is now a line of leather goods, aimed it appeared at the police. They also have the ear-muff type of protectors. The Husqvarna rifle, imported and peddled by the company now has the new improved action. This is very probably the slickest working Mauser-type action on the market.

Ray Speer had a new .38 cal. snake cartridge at the show. It was conventional except **Speer, Inc.** designers had placed a plunger in the bottom of the plastic pouch containing the # 10 shot. When the powder gases pushed against this piston it is driven forward and ruptures the shot container.

The Sinoxid primers, made by RWS, the great West German ammo firm, are imported by **Stoeger Arms Corp.**, South Hackensack, N.J. These primers are available in large and small rifle and large and small pistol sizes as well as a complete line of shotgun primers.

The center-of-all-eyes attraction at the **Sturn Ruger** place was not the Model 77 rifle, nor yet the Number One single shot, but the new double action revolver. About to be released to the shooters, the revolver is essentially meant for law enforcement.

The **Super-Vel Cartridge Corp.**, loading our hottest line of handgun cartridges, now plans to get into the rifle field. It was first planned to come along with seven of our most popular rifle loads. This has now been trimmed to five and these should be announced in the fall.


The new **Tasco** tapered-wire reticle has been dubbed the "30-30." This sobriquet has been appended for the tapered portions of the crosswires subtend thirty inches at 100 yards. The reticle can be made to serve as a sort of range finder. The new 30-30 reticle is available in eighteen of the various Tasco scopes.

**Thompson/center** had on hand a pair of muzzle loading rifles, one a percussion and the other a flintlock. These rifles were handsomely finished both as to metal and wood. The brass hardware on barrel bands and trigger guards was buffed until it resembled gold. Besides the vintage guns, the company had a miscellany of barrels for the single shot pistol. One for the new 5 mm Remington cartridge.

**Roy Weatherby** is showing his line of Sauer shotguns, both side-by-side and over/under models. Along with the smoothbores he has a new spotting scope to be known as the Sightmaster Zoom. It is instantly adjustable from 20X to 45X, with a sturdy mount to go with it.

**Winchester-Western** had a full display of the rifle and shotgun line at the show. Basically there was nothing really new. At the NRA roundup, the

firm had a special booth dedicated to the reloaders. The combined company now offers 39 different rifle cases, either primed or unprimed, some 91 different bullets, ranging from the 45-gr. .224 cal., to the 510-gr. .458 Magnum. There are 21 different cases for the handgun line, and 7 different primers for rifle, pistol and scattergun. Ball powder has always been a speciality with W-W—they developed it first—and today the handloader has a choice of 20 different shotgun propellants, 4 pistol, 4 rifle and one powder that may be loaded in either rifle or pistol cartridges.

All in all, the New Orleans show was a dandy for everyone there. The warm sunshine and all around good weather put people in a good frame of mind and they all seemed to be impressed at the fine lines of goods displayed. 

## AUTO SHOTGUNS

(Continued from page 21)

it to the rear; reverse motion completes the cycle.

Like the other gas operated autoloaders, the C1200 can handle light or heavy loads interchangeably. A pressure release valve (consisting of a gasket, spring washers, spacers, and a tension adjusting nut) will bypass gases forward from the gas cylinder if gas volume and/or pressure exceeds the limits for which the action was designed to function. This means that operating pressures and volume of gases that operate the gun are consistent within acceptable limits regardless of what kind of ammunition is used. This feature is convenient and contributes to reliable operation of the gun under all kinds of shooting conditions. All operating parts are contained in the receiver and magazine areas; no assemblies are located inside the butt stock.

The Supermatic is of fixed barrel design, meaning that the shooter cannot interchange barrels for different purposes. Because of this feature, it is recommended that purchasers of High Standard autoloaders buy models with the adjustable choke device. The adjustable choke greatly enhances the usefulness of the shotgun for many different kinds of shooting and it is quite reasonably priced.

Supermatics are made in 12 and 20 gauges. The 12 gauge line includes a model (1211) that accepts 3-inch shells to suit the needs of waterfowl hunters. 12-gauge models weigh in at about 7½ pounds which is about par for an autoloading field gun. A 20-gauge model is available that shoots

2¾ or 3-inch shells. The receiver and other parts are scaled down in size, and the gun weighs about seven pounds. It could be a very good choice for an all-purpose field gun.

As a matter of interest to hunters who use a slug gun, the Supermatic Deer Model is one of the most popular arms for this type of shooting.

### Winchester Model 1400 Mark II

A number of features makes the Model 1400 Mark II one of the most unusual offerings in the present crop of self-loaders. Designed as a companion production piece to the M1200 series pump guns, the 1400 takes full advantage of gas-actuated design to accomplish interchangeability in manufacturing.

The 1400 uses a gas cylinder configuration similar to the Remington M58. A hollow gas piston is located inside the forward section of the magazine tube. The tube walls form the gas cylinder, but the expansion chamber is the counterbored portion of the piston. The operating spring is placed behind the piston and power is transmitted through a pin running through the piston and connected to dual operating rods. This arrangement is less bulky than High Standard's gas assembly, but is somewhat more conducive to accumulation of powder residues.

The 1400 uses a spring loaded pressure relief valve to bleed-off excessively high pressure from heavy and Magnum loads. The action will handle all kinds of loads interchangeably.

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The locking system of the 1400 is rather unique for shotguns. It uses a rotary bolt, two-piece breeching element. The breechblock locks directly into abutments in the barrel extension. This arrangement provides an exceptionally strong, smooth-working breech system. Full encasement of the cartridge head in the barrel extension means added safety and strength should a gas leakage occur.

The rotating force that locks and unlocks the breech is provided through a follower pin by the action of a cam cut in the bolt carrier. This cam effects rotation of the bolt through a lost-motion coupling that is in-line with the axis of the bore. Because of the linear relationship of this lost-motion combined with the necessary barrel extension clearances, the internal receiver dimensions of the M1400 are somewhat longer than other more

1400. The 1400 is a product of one of the most extensive design engineering programs of any sporting arm.

Kinetic analysis of the operating cycle shows that impact velocities of operating parts against the back wall of the aluminum receiver are well within the structural limits of the alloys used. If it is true that 1400's are less durable than other self-loaders, (which is not an established fact), the aluminum receiver cannot be blamed.

The M1400 Mark II is made in 12, 16, and 20 gauges. All bore sizes use the same frame so there is no saving in physical dimensions with smaller gauges. The 20-gauge model weighs in at about 4 ounces lighter, however, due to scaled down functional parts.

Winchester has introduced two new features in the 1400 models that will interest many shooters. The Win-Choke is a removable choke tube



Wire shell catcher is quite effective but rather tricky to install.

conventional kinds of actions. This added length has no effect on overall length of the gun, however, as is sometimes thought.

Another unusual feature of this gun is the aluminum receiver. Use of the light metal cuts down on the overall weight of the shotgun. The 1400 runs from 8-12 ounces lighter than some comparable 12 gauge autoloaders.

Many shooters object to aluminum gun parts, particularly major assemblies like the receiver. The main objection seems to center on wear and durability. There is no denying that the external surfaces will show wear and abuse sooner and to a greater degree than will steel. However, the internal receiver surfaces are not load bearing in the 1400 design and therefore not subject to wear. Most difficulties in the use of aluminum in firearms has come from improper alloy specifications or applications of the light metal to direct substitutions for steel in an existing design. Neither of these considerations is true for the

threaded for insertion *inside* the barrel. Only a knurled ring shows at the muzzle to give away the device. A shotgun can be purchased with one barrel and two extra choke tubes that are interchangeable for the kinds of shooting desired. Another plus is the fact that these chokes can be reamed by competent gunsmiths to provide custom patterning characteristics for individual guns.

Winchester has taken pity on the southpaw and made the Mark II available with the ejection port and operating handle on the left side of the receiver. Many left-hand shooters have foregone the selection of an auto-loader rather than put up with shells and residues being expelled virtually in their faces.

### Remington Model 1100

The most popular and widely accepted self-loader on the market today is the Remington 1100. Introduced in the early 1960's, this gun quickly gained favor on the skeet and trap



fields. Its reputation for ruggedness and reliability won many votes among field shooters as well.

The 1100 uses an external piston-cylinder configuration that is located surrounding the magazine tube. The piston unit itself is a light weight steel collar backed up by a compression seal that contains gas pressures in the cylinder. Both of these pieces act on a rather massive part called the action bar sleeve. This part adds needed inertia to the operating cycle that was missing from the previous Model 58 design. This inertia softens the strain on operating parts, slows impact velocities, and sustains the momentum necessary for consistent cycling using different power loads. Locating this major component weight in the forend improves balance of the gun, also.

The added weight of the action bar sleeve also decreases the recoil effect of firing the M1100. The heavier the operating parts of a gas-actuated arm relative to the total weight of the gun, the greater is the counter-recoil effect produced when gas pressure pushes the piston to the rear. The reaction set up in the gas cylinder moves the piston rearward but also forces the barrel forward. This reaction counteracts some of the recoil forces generated

when the shot charge is sent forward and the barrel rearward as the gun is discharged.

Counter-recoil action is most significant in gas-actuated guns. (Recoil operated guns soften the apparent recoil merely by spreading the impulse over a longer time and distance.) This reduced recoil factor is a big point in favor of the choice of an autoloader for many shooters. Without a doubt, shooting effectiveness is improved, especially in 12-gauge guns. And the 1100 is probably the softest shooting gun of the current lot.

The external piston design of the M1100 is virtually self-cleaning, since residues are blown clear of the cylinder collar after each shot. Maintenance on the 1100 is not demanding for the gun to deliver dependable performance. This fact goes a long way in winning converts to autoloaders.

The self-loading shotgun, and especially the current gas actuated models, are children of industrial mass production. The "Browning Legacy" of mass produced arms is a necessary reality for today's mass markets. Quite obviously, the cost of resources necessary to produce the number of guns demanded today would be prohibitive  
(Continued on page 61)



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Our congratulations go to Doyle Williams, Rt. 1, Box 67, Okemah, Okla., who was last year's champion at the Prospectors Club Meet. This year, he EARNED FIRST PLACE AT BOTH THE WORLD CHAMPIONSHIP MEET AND THE INTERNATIONAL PROSPECTORS CLUB MEET. To see Doyle work with his detector is a joy. Previously, Doyle had used other brands of detectors. His choice of instruments this year was one of our NEW BREED OF HUNTER DETECTORS.

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## HOLSTERS

(Continued from page 43)

designed for crossdraw, so the butt of the gun cants forward. Safariland, because of a unique type of belt loop, makes sixteen models that can be worn straight draw or crossdraw, but this is a special Safariland feature. All Lawrence holsters, for \$1.80 extra, can be ordered crossdraw. The Berns-Martin "Raider" holsters, for semi-autos, and their "Speed" holsters, for revolvers, can be ordered crossdraw.

### Police Leather

The uniformed policeman needs a scabbard that is safe, fast, and difficult to be snatched by wrongdoers. This means retaining straps. The Don Hume "River" belts and holsters are excellent police rigs. The new Don Hume "Corfam" plastic holsters are just what the doctor ordered for Viet Nam and other moist climates. The Hume "River" models make top military rigs. Myres' Border Patrol holsters are some of the best police holsters designed. The new Bianchi Model 27 "Break Front" is a police 'clam-shell' that is "riot proof." It cannot be jerked out from behind or from the top. The Bianchi "Break Front" should prove very popular with the police who work our riot-torn cities. The S&W new "Hook-on-Belt" Model 12 will also become popular with the police who wear Sam Brownes.

For the man in the squad, the swivel holster has advantages. The swivel tab can be unsnapped to allow the holster to swivel out of the way of the seat. The Bianchi and Safariland swivel-type rigs are also 'top gun' leather for squad use.

### Western Rigs

Western holsters should be worn out West, that's easy to remember. Many want to wear them for hunting, because they look good, they are quick-draw, and they are holstering a Sixshooter. But they are too bloody heavy in the field, and they sling too low. A hunting holster should be worn high; especially, if you ever plan on sitting down. Sitting on top of Old Paint and sitting on top of Old Smokey are two different matters.

The Lawrence No. 78 "Gunfighter" is my type of Western rig. There's nothing Dude about this authentic reproduction of the "Old West" holster. Rendered in heavy saddle leather, in rich mahogany oiled finish (also in black), the word is: Rugged.

For a "slap leather podner" Western quick-draw, I'll take Arvo Ojala's No. 1 in "Roughout" finish. Arvo has been technical consultant for a lot of Western flicks, and being a quick-draw artist himself, has taught a lot of movie stars how to shoot. He origi-

## HOLSTER MAKERS

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 Chace Leather Products, 507 Alden St., Fall River, Mass. 02722  
 Charter Arms, 265 Asylum St., Bridgeport, Conn.  
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 S. D. Myres Saddle Co., Box 9776, El Paso, Texas  
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 Safariland, 1946 S. Myrtle Ave., Monrovia, Calif. (.25¢)  
 Safety Speed Holster Co., 32077 W. Beverly Blvd., Montebello, Calif.  
 Seventrees Ltd., 315 W. 39th St., New York, N.Y. 10018  
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nated the metal-lined holster. The Arvo Ojala holsters are metal contoured so that the cylinder never touches sides. This means that you can start cocking the hammer the second you 'slap leather'. In conventional Western holsters you have to wait until the cylinder clears leather.

If you like carved "Buscadero" rigs, then Myres and Lawrence can supply you with Two Gun Pete rigs. Berns-Martin makes a few hand carved "Speed" Holster Western rigs for DA as well as SA revolvers.

For several years now I have been using the Bianchi "Texan Gunbelt" holster combo for my .22 Ruger. Just for plinking, I wouldn't trade it for a bowl of jelly beans.

If you want your cowboy rig to hang low like in the movies, then add 5 inches to your belt size when ordering. Actually, it is only the Hollywood and TV cowboys who sling their rigs low. The old gunslingers used to wear them high.

### Undercover

When purchasing an Undercover rig, if you are of the James Bond persuasion, make sure it is an Undercover holster you select and not just a Concealment Rig. There is a difference! An Undercover rig means that your gun can't be detected even by Pussy Galore, or by someone bumping into you on a subway. Undercover rigs are for "holdout" guns, and include ankle, wrist, spine, or neck holsters. Concealment rigs are shoulder or small hip holsters, mainly; those concealed from sight but not from touch. A plain-clothes detective uses Concealment holsters, while secret agents generally depend on Undercover rigs.

When it comes to Concealment shoulder holsters, you want one that carries the muzzle facing downwards or horizontal. Although many will disagree with me here, a shoulder rig that has the muzzle facing upwards is disconcerting, if not dangerous. A gun should never, loaded or unloaded, be pointed at a person unless you are prepared to shoot, so why point it at yourself?

Safariland and Seventrees make the widest variety of horizontal shoulder rigs. Bianchi makes a terrific shoulder holster for all size guns and makes: The Model X-15 Series, which faces the muzzle downwards.

All Seventrees holsters are wet-forms, whether for the belt or for shoulder rigs. Colt makes some excellent wet-forms for the guns they make. The new Colt No. 100 scabbard is great. It is made of rubber and carries the Cobra high above the belt.

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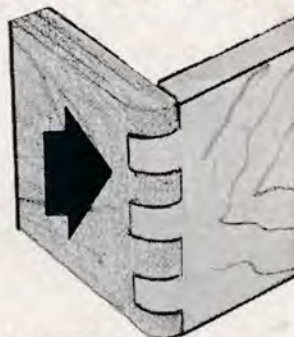
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a request for some plastic outfit to produce a line of top-quality plastic rigs aimed at beating the bugaboo of leather mold in Viet Nam and other moist, tropic areas. The Tayra Corp. of Canton, Ohio, has followed up on my request and has produced 'just what the doctor ordered.' These high-riding rigs resemble the Colt X-100. But while the Colt model is made of rubber, the Tayra models are of plastic. The first Tayra rig is made for the S&W M19. The unique feature of these Tayra holsters is their 'belt adjuster,' whereby any Tayra will fit any width belt, snugly. They are extremely well-made and strong."

The Bucheimer-Clark "Detective Model" is a Concealment holster, also. It is useful, say, if you are a state's attorney's policeman, who needs to remove his gun pronto when entering court rooms and such. The "Detective Model" has a snap that fastens to the belt securely. It is an outside-the-belt-holster. (Most snap-ons are in side-the-pants.)

The Safariland Model 14 Clip is a honey of an inside-the-belt holster for small guns. It has a tab that snaps on the belt securely. (Bianchi has a similar models.) Beware of metal clips for inside-the-pants holsters, since they can pull out with the gun in quick-draw, resulting in your quick-demise.

Even though I am not high on the upside-down shoulder rigs, I like the Berns-Martin "Lightning" Triple Draw. It can be worn three ways: (1) as an upside-down shoulder rig, (2) on the right hip, muzzle down, and (3) upside-down as a crossdraw on the left hip. Being a clamshell, it is very fast. Bianchi's Model 13 "Commander" can also be used in these three ways.

Berns-Martin has been making quick-draw holsters for 40 years. Their "Raider" holsters are semi-auto rigs of exacting design. Their "Speed" rigs are for revolvers. The "Speed" holsters are of the basic "Break Front" design, and the gun cannot be taken out from the top or from behind by an enemy. Strangely enough, the "Speed" and "Raider" holsters, which are for large-frame guns, have been used by agents as Concealment rigs in the past. They are tough holsters to beat!

Chic Gaylord's Undercover and Concealment rigs are becoming collector's items. He made some of the best! If you see a Gaylord rig, buy it. Then go out and find a gun to fit the rig. They're that good.

Paris Theodore, the chief of Seventrees Holsters, fortunately, has taken up where Chic Gaylord left off. The most comfortable shoulder hol-

ster I have ever worn is a Seventrees. I prefer his horizontal rigs. Would you believe they even conceal under a shirt?—Paris makes a "Groin Holster." Now, bunko, *that's* what you call an Undercover rig. To draw the gun, one must unzip with the left hand (button flies are frowned on) and pull out the weapon with the right. If you are left handed, forget it. The Seventrees' catalog lists a "Coccyx Holster." This is for maximum concealment. (You'd better believe it!) It is made to carry a Derringer with grips removed.

It is interesting to note that the genealogy of the Undercover/Concealment rigs started with a half-breed Indian called Tom Three-persons, and



Seventrees' Model UNS rig fits in the natural hollow just above hip.

evolved thru "Tio Sam" Myres, Berns-Martin, and Chic Gaylord, finalizing in Paris Theodore. If nothing else, here is a parlay of names that would amaze even a Hollywood producer.

Oh, yes, Safariland has an Undergarment rig for the ladies. That is, their Model 50, "Women's Concealment Weapon Holster," is an ideal gift for your favorite policewoman, since it tucks nicely in the bra.


Bianchi, Lawrence, Myres, and Safariland carry the largest lines. Don Hume specializes in law enforcement equipment. Berns-Martin and Seventrees in hand-made undercover/concealment rigs, in the main. Arvo Ojala concentrates on quick-draw Westerns. Then there is Whitco and Triple-K. All of these holster makers can supply your needs, if you know what they are. These are mail-order

houses, for the most part, although you will find some of these in better gunshops. If you desire a certain type holster for a particular need, order one that is right for you.

But if you just need something to drop your gun into, try a Kraft paper bag; or let the clerk at the nearest sporting goods store talk you into the only holster in the store that "sort of" fits your gun and/or "sort of" serves your purpose. Then, when the Moment of Truth presents itself, you can

"sort of" save your life.

The exception to the over-the-counter purchase of scabbards are the holster lines of Colt, Bucheimer, and the new Smith & Wesson rigs. Still, no dealer can possibly carry an inventory of all the various makes and models.

Therefore, bunko, if you have been "leather lax" in the past, get into the game: my game of 'Hide and Seek.' Seek out the rigs that best suit your requirements. 

(Continued from page 57)

exclusively. Our modern gas operated shotguns are especially suited to the production technology of the U. S., where such a great amount of machinery and tooling is invested per worker. These guns are really marvels of mass production, but there are inevitable changes (some say sacrifices) made in standards of excellence.

Some of the most important mechanical changes involved the construction of trigger groups. The extensive use of aluminum die castings for trigger housings and stamping for lever parts gives the production shotgun trigger a rather heavy pull that is quite difficult to improve. Most gunsmiths dislike having to adjust these triggers, since so little latitude is allowed for improvement before malfunctions occur.

Competition shooters are most finicky about trigger characteristics and are the most willing to pay to have adjustments made. The Timney Mfg. Co., 5624 E. Imperial Highway, South Gate, Calif. (90280), now offers a replacement trigger group for the Remington Model 1100. (It also fits the 870.)

It is common today to see trap shooters using the M1100 autoloader. Some trap shooters object to self-loading guns because ejected shells tend to hit the legs and feet of the shooter who stands on the right side of the gun. Reloaders also dislike having to play stoop-tag picking up the empties after a round.

Both problems are overcome by fitting the 1100 barrel extension with a piano wire bail that catches and holds the empty hull in the ejection port. The bail is easily removed for shooting doubles or when and if the gun is used for game shooting. Single shells are loaded base first into the forward part of the ejection port, then turned rearward so that they can fall on the carrier. The fitting of this wire bail is relatively simple but must be accomplished by an experienced hand. Special jigs are needed to drill the holes and bend the wire to shape for reliable performance. The author had his

M1100 trap gun altered in this way by Frank Busang, 719 Holly Avenue, Imperial Beach, CA (92032), who has made a speciality of gunsmithing on competition shotguns.

Model 1100's are made in 12, 16, and 20 gauges on the standard frame. Because of reduced scale of internal parts, each gauge runs about 4 ounces lighter in weight than the next largest bore. The 12-gauge field grade weighs about 7½ lbs., 7¼ lbs. for the 16 ga., and 7 lbs. for the 20. In addition, the 20 bore is available with a mahogany stock that reduces weight further to about 6¾ lbs. All of these models are favorable for field use compared to other types of shotguns.

The 1100 is made on a small gauge frame in 28 and .410 bore. These little guns make exceptionally fine upland pieces, particularly in 28 gauge, being compact, trim, and light weight (6 to 6¼ lbs.) Just recently, the small receiver has been adapted to shoot 2¾" 20 gauge shells. The 20 ga. lightweight will tip the scales at 6½ lbs. and promises to be exceptionally popular with upland gunners. All these small frame models are unique among the world's autoloading shotguns.

Some shooters downgrade the autoloader to rationalize their own choice of some other type of gun. This kind of negative selling is responsible for the spreading of a good many rumors about autoloaders that, for the most part, are either untrue or insignificant. Among these rather common misconceptions is the fact about "balance." Pointing characteristics of a shotgun depend to a great extent on weight distribution. If a gun is heavy or light at the muzzle, its pointing characteristics change.

Many shooters are told that autoloaders are muzzle light because operating parts are housed in the butt stock. Some models, notably the obsolete Model 50 Winchester, do have muzzle-light characteristics. However, the current gas operated self-loaders carry the point of balance between the hands as is expected of a well-balanced piece. (Some upland hunters prefer a muzzle-light autoloader, since



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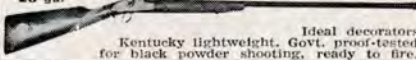
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it swings easier, it's on target fast.

The shifting-balance syndrome, attributed to reducing shell count in the magazine tube, simply won't hold up under examination. The weight of one or two shells is next to nothing compared to the overall weight of the gun. Besides, the shells are carried very close to the center-of-gravity. The shift in balance due to a full or empty magazine is negligible.

Placement of the barrel above the axis of the butt stock does contribute to recoil elevation of the muzzle when firing an autoloader. However, gas operated self-loaders develop counter-

recoil forces below the axis of the butt stock, so these reactions tend to cancel out and keep the barrel on an even keel. Much of this muzzle elevating effect can be overcome by using a straight comb stock on the gun, which, in effect, lowers the axis of the barrel.

Today's autoloading shotguns offer smoothbore shooters an outstanding value. While increasing numbers of scatter gunners have come to know this fact, too many buyers make choices for other reasons without giving the self-loaders a try. Are you one of those shooters who would be better off with an autoloader? 

## TOKAREV TT1933

(Continued from page 25)

along with the manual and grip safeties found on Colts and Lugers of the same period. Soviet reasoning apparently was that a pistol should either be cocked and ready to fire, or safely uncocked in any other case, rendering mechanical safeties extraneous. However, the Russians have long had a reputation for playing dangerous games with cocked and loaded pistols!

For the socialist soldier's benefit, the easily lost recoil spring plug of comparable Colt designs was replaced by a simple "button" firmly attached to the muzzle end of the recoil spring, with only a small hole in the solid front of the barrel bushing to engage the tip of the "button". Also, unlike most semi-permanently assembled Colt and Luger magazines, the simple Tokarev box magazine is easily taken apart for cleaning. No disassembly tool other than a cartridge is needed for basic field stripping, as there are no screws used anywhere in the pistol. The black plastic grips are held on by movable metal strips riveted to the inside surface and engaging small cuts in the grip frame when turned with a small pointed object.

As a manufacturing step-saver the locking ridges on the barrel, rather than being milled into just the top as in most Colt-Brownings and the original TT1930, are simply lathe-turned all the way around on the TT1933, though the side and lower portions have no locking function. The single most outstanding feature of the pistol, however, is the removable, unitized assembly containing the hammer and its internally located striking spring, the sear, disconnector, and a pair of sturdily machined cartridge guides. These guides firmly engage the cartridge between magazine and chamber, regardless of how bent or misshapen the lips of the magazine

may be. Since a large portion of the stoppages occurring in auto pistols are due to damaged magazine lips, the elimination of this problem on the Tokarev makes it one of the most combat-reliable auto pistols ever built.

Loading, firing, and field-stripping the Tokarev are virtually the same as our .45 auto. The Tokarev magazine holds eight rounds, with one in the chamber giving a total of nine. Always remember that once the pistol is cocked, there is only one thing to prevent it from firing if the trigger is touched. If the hammer is held back with the thumb(s) and the trigger squeezed to allow the hammer to begin to move forward, releasing the trigger and easing the hammer down will cause it to come to rest in a half-cock notch just short of contact with the firing pin. The pistol cannot fire from this half-cock position, and it is a little easier to cock from that condition than with the hammer fully down (accomplished by continuously squeezing the trigger while lowering the hammer). As those familiar with standard auto pistols will appreciate, the business of lowering the hammer on a loaded chamber is always a potentially dangerous one in the event of a slip or fumble, and should be avoided whenever possible.

The only significant difference in the disassembly of the Tokarev is the means by which the slide stop is retained in the receiver. On the right side of the pistol is a flat metal clip which snaps over the protruding end of the shaft of the slide stop which passes through the receiver and swing-link of the barrel. This clip must be pushed straight back with a cartridge rim or other non-steel object, taking care not to unnecessarily scratch up the side of the receiver. Once the slide is removed from the receiver, the char-

acteristic hammer-sear-disconnector-guide group may fall out if the receiver is being held upside down; obviously, the receiver cannot be held upside down when the group is reinserted for assembly, either.

If the selection of an odd cartridge like the .30 Mauser/7.62mm Russian seems strange in relation to the popularity of the 9mm and brute force of the .45, one should examine the ballistics of this unusual contender. With a bullet weight of 86 grains, the .30 Mauser/7.62mm Russian cranks out slightly more than 1400 feet per second, with a muzzle energy of about 370 foot-pounds. The muzzle energies of the .30 Mauser/7.62mm Russian, 9mm Parabellum, and .45 ACP are all approximately equal. While the big, slow .45 has more shocking power, the smaller calibers have greater velocities and penetration, with the .30 Mauser/7.62mm Russian capable of punching through more than nine inches of pine boards at close range!

As a matter of fact, the .30 Mauser was the world's highest velocity pistol round until the development of the .357 Magnum. The cartridge has a flat trajectory and can be very accurate at reasonable pistol ranges. However, the small, full jacketed bullet has little stopping power on man or large game animals, and is likely to go ziping right on through whatever it hits and waste most of its energy plowing up dirt in the background. If it were desired to use the cartridges for hunting purposes, performance could no doubt be radically improved by hand-loading soft-nosed hunting bullets. With such fodder, a tuned-up Tokarev could make an inexpensive and formidable varmint-busting hand cannon, indeed!

It was my recent good fortune, and the inspiration for this article, to have the use of a Tokarev-type pistol for testing and evaluation. A friend, Colonel Harold R. Aaron, had just returned from a tour in Viet Nam as Commanding Officer of the 5th Special Forces Group. Along with some other interesting specimens of Communist weaponry, he generously loaned me a Chinese Communist made Tokarev, complete with a European-style full flap holster, lanyard, spare magazine in pocket, and attached cleaning rod!

The Chinese-made pistol is an exact copy of the Tokarev except for markings and the grasping grooves at the rear of the slide. Markings were in Chinese characters except for numbers, and the letters "CCCP" normally found around the star on the grips of Russian-made guns were missing. The grasping grooves were simple

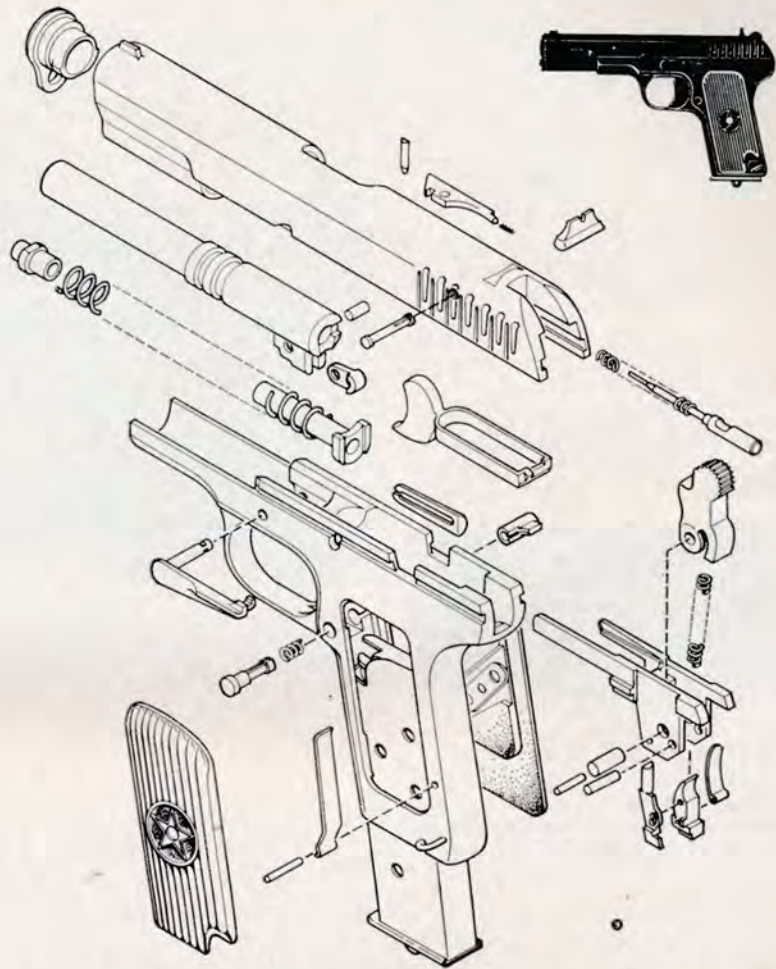
(Continued on page 66)



# AN INSIDE LOOK

## AT THE 7.62 TOKAREV PISTOL

By SHELLY BRAVERMAN



**EVER SINCE** the appearance of the Browning designed Govt. Model 1911 auto, imitations have popped up—all claiming to be improvements and none succeeding.

The Tokarev, however, is an interesting example of how far it is possible to cheapen the basic design and yet have a functioning gun. The Tokarev dispenses with the grip-safety, the thumb-safety and the inertia firing pin (and other design features) of the M/1911, thus allowing cheaper, albeit less safe, guns; the Tokarev, for example, should never be carried with the hammer down and chamber loaded. The grip latches, copied from the Browning M/1900, are bad, as is the use of split-pins (which break). The gun has been replaced as top-standard issue, but Russian policy forbidding export and current Federal Firearms Act prohibition of import make it very unlikely that any substantial quantity will appear here; accordingly

it is expected that collectors will soon be paying \$150-200.00 for a specimen. American 7.63 Mauser Pistol ammo usually functions well in Tokarevs in good condition.

**TO DISMOUNT:** 1) Remove magazine and clear chamber. 2) Pull back on slide-stop latch (magazine bottom plate may be used as a tool) until latch is free of slide-stop. 3) Push slide-stop out of frame from right to left. 4) Remove slide from front of receiver, but be careful to hold recoil spring in place to restrain it from bending outward. 5) Push recoil spring guide toward front of slide, and ease out. 6) Muzzle bushing can be given 1/2 turn and removed; draw barrel out. 7) Grips can be removed by first unlocking the left grip by entry from magazine well; push tail of latch to rear of gun. Right grip may be removed after left grip removal allows access. **TO ASSEMBLE:** Reverse above procedure.

LATEST ADDITION TO the look-alikes is the new Commando Mark III. This weapon is semi-automatic only, .45 ACP caliber, has a 16½ inch barrel, weighs 8 pounds and comes with either a 15 or 30 shot magazine. It fires from a closed bolt, has a hammerless action, adjustable rear sight, flash hider and compensator. It may look like other .45 car-



bines but the similarity ends there according to the manufacturer. Also available in the Commando Mark I in .30 Carbine that would be ideal for law enforcement agencies and special guard groups. The Mark III sells for \$129.00, and the Mark I retails at \$149.50. Write Volunteer Enterprises, Inc., Dept. G-8, P.O. Box 12198 Clinton Hwy., Knoxville, Tenn.

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WEAR YOUR OWN SAFETY into the hunting field. It's called the Reversible Blaze Orange Hunter's Cap from Bob Allen's Gun Club Sportswear. This cap is reversible from the outer shell of Taupe



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ing to a traditional red nylon. Complete with detachable hood. A versatile garment for deer watch, duck blind, or any other outdoor activity. Sizes 36 to 46. From Woods Bag & Canvas, Dept. G-8, 16 Lake St., Ogdensburg, N.Y. 13669.

LEUPOLD SIGHTS HAS released the first in a series of Nosler Bullets display boards. The boards provide a ready reference for data on calibers available in Nosler partition and solid base bullets. Cutaway samples graphically



show the unique construction of these bullets. They are mounted on a circle within a handsome four-color rendering of a wildlife scene. The board sells for \$8.50 and only a limited quantity will be produced. From Leupold & Stevens Instruments, Dept. G-8, P.O. Box 25347, Portland, Ore. 97225.



CATHEY ENTERPRISES is offering hand-crafted top grain cowhide gun cases imported from Mexico. These gun cases all have floral designs, individually hammered and tooled. Each case is lined with a soft acrylic fiber for protection of rifle and scope. Available in two styles; zipper heel closure and slip-over heel cover that buckles on to the front. Introductory price is \$24.50 from Cathey Enterprise, Dept. G-8, P.O. Box 3545, Chula Vista, Calif. 92011.

A NEW LINE OF shooter-designed sport shirts has been announced by 10-X Manufacturing Co. The new shirts are made of washable, drip-dry, wrinkle-proof Oxford cloth with soil release. They have a button down collar and are tapered at the waist with box pleated back for free swinging action. Shoulder



padding is of urethane for recoil protection without bulkiness. Available in mint green, soft blue and maize yellow. For more information contact 10-X Manufacturing Co., Dept. G-8, 100 S.W. Third St., Des Moines, Iowa 50309.



# SHOPPING WITH Guns

IT IS SELDOM that you get a chance at a real bargain, but it appears that just such a chance is now offered by Centennial Arms, 3318 W. Devon, Lincolnwood, Ill. 60645. All of their muzzle-loading guns are being offered at real



savings; including the New Army revolver, the Zouave .58 rifle, the their blunderbus coach gun. In addition, they have a variety of other black powder guns, both flint and percussion at one-time-only close-out prices. See their ads in this issue.



TIGER STRIPE camouflage, the newest innovation in hunting clothing is made by Camouflage Mfg. Co. The unique Tiger Stripe is an imported idea from the South Vietnamese Army. It is a highly effective camouflage in any brush or foliage and works well in all seasons. The fabric is rip-stop poplin manufactured to stringent U.S. Govt. specifications. The Australian campaign hat is also available in the Tiger Stripe camouflage. Available from Kaufman Surplus & Arms, Dept. G-8, 623 Broadway, N.Y., N.Y. 10012.

"A SHOOTING SHIRT at a sporting price" is the best way to describe this new custom shirt from Old Mill Trap & Skeet. It features a quilt stitched shoulder pad to help soften recoil and prevent shift of the gun between shots. A special blend of cotton and polyester assures perfect



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HIGH STANDARD'S 13-gun line of Flite-King 12 gauge pump action shotguns now offers a redesigned front magazine support, a new stock and improved trigger pull. The front magazine support is now welded to the barrel for increased strength and rigidity. The welded bracket reduces the chance for magazine misalignment and toughens the gun against hard use in the field. The redesigned American walnut stock sports a new relaxed pistol grip said to improve balance and point. A repositioned trigger gives more consistent pull, according to the manufacturer. High Standard's Flite King line of pump action shotguns includes deluxe, rib, skeet, trap and brush models with a selection of choke choices and barrel lengths. Suggested retail prices range from \$99.95 to \$134.95. For more information, write High Standard, Dept. G-8, 421 North Altadena Drive, Pasadena, California 91107.

THE EDDIE BAUER jacket-length Snowline Vest is a favorite of the mountain climber and gun-ho sportsman whose arms don't need protection. Fully insulated with 100% New Premium Quality Bauer Goose Down, the Snowline Vest is



ultra light—weighs only 15 ounces. Two-way zipper opens either top or bottom. Comes in either Winter Blue or Firehouse Red from Eddie Bauer Expedition Outfitter, Dept. G-8, 417 E. Pine, Seattle Wash.

A NEW protective polish, called "Total Finish," is a versatile material which will absolutely repel water, protect the finish and maintain the appearance of glass, ceramic, plastic, and metal surfaces. It is transparent, and cannot discolor or peel. For shooters, it will eliminate water smear on scopes and binoculars during wet weather. For a sample and complete information, send \$2.10 to: Precision Tool Supply Co., Box 612, Dept. G-8, Lansing, Mich. 48903.

NEW FROM HERTER'S is the Guide Model revolver in either .22 caliber or .38 Spec. Barrel is made of the finest weapon steel and this new gun features both double and single action, ventilated rib, unbreakable plastic grips with thumb rest,



and a choice of either a 4 or 6 inch barrel. The .22 model is priced at \$39.97, blued, and the .38 is \$44.95. Chromed models slightly higher. Available from Herter's, Inc., Dept. L, Waseca, Minn. 56093.

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(Continued from page 63)

parallel cuts instead of the Russian pattern of alternating narrow cuts and wide, shortened grooves.

The date 1966 was stamped on the slide, which confirmed the observation that the gun was virtually brand new, with a shiny blued finish rusted in a few places next to the body side of the holster. Matching serial numbers were stamped into the slide, receiver, barrel bushing, barrel, hammer group, and magazine. The bore was in perfect condition, as was the entire mechanism throughout. Wear marks on the moving parts, face of the slide, cartridge guide arms, and ejector all showed that the pistol had been fired, though apparently only enough to get it well broken in.

After a meticulous examination and thorough cleaning, I decided to take the gun to the range for test firing. I had no difficulty whatsoever in purchasing a box of Western .30 Mauser Pistol ammo, and though the cardboard box was rather shopworn, the modern cartridges inside were clean and bright. I had practiced dry-firing a bit to get the feel of the trigger, which was crisp but heavy at about eight pounds. I began by firing a few rounds into the backstop for familiarization. The recoil was similar in magnitude to that of a .45, or perhaps a little more abrupt due to the higher velocity. The report, however, was very much in keeping with the cartridge's "Magnum" characteristics. Shooters to both sides of me on the firing line commented about the muzzle blast, and they were all shooting .45's themselves!

Having checked the "feel" of the weapon, I fired a few slow shots at a standard 25-yard target (it was a timed/rapid target, but all I could get). The surprisingly good group was quite a bit high and a little to the left. Though the rudimentary sights were non-adjustable without filing them for elevation or "drifting" the rear sight for windage, I felt there was a potential for accurate shooting with a little "Kentucky windage". On a clean target, I very slowly fired five shots holding low and a little to the right. The resulting 1½-inch group inside the ten ring of the timed/rapid target seemed unbeatable, so I was not about to put any more shots in it and risk spoiling my record!

Instead I decided to give the gun (and myself) a real test at 50 yards. Sure enough, it was at the longer range that the extremely flat trajectory of the high velocity round became glaringly apparent. With a center hold on the bull, some of the shots went off the top of the paper. On the target

I finally decided to save for an illustration, one shot with a target-shooter's conventional "six-o'clock" hold just under the bull resulted in a hit near the top of the scoring rings. The next four shots, holding roughly at the bottom of the paper, went near the upper part of the bullseye. At 50 yards, the rather large amount of "Kentucky windage" that had to be applied made consistent grouping difficult.


Obviously, there is no way of knowing whether all Tokarevs perform in a manner similar to this. However, I believe that this gun may have been deliberately sighted high as compensation for the tendency to point low with its right-angled grip in "snap-shooting". If I pointed "by feel" without looking over the sights, I would end up aiming at the bottom of the target, but the shots would go a bit high of the point of aim and strike the target. Thus, as a combat weapon, the tendency of the pistol to shoot high would be an asset. However, if one were going to tune up a Tokarev for varmint busting, the sights should be filed and drifted to shoot to the point of deliberate aim in order to take full advantage of the extremely flat trajectory of the cartridge.

If you own a Tokarev or know somebody who's selling one (the price shouldn't be excessive), you might consider trying it out. The first requirement would be to have it tested by a competent gunsmith, just like any other war souvenir weapon of uncertain background. Once you're certain it's safe to fire, you might try shooting a few tin cans with it, only to decide it's not worth it and toss it back in the footlocker. On the other hand, if you're fascinated with the possibilities of the near-Magnum cartridge, you might consider giving it an accuracy job similar to a .45 auto tune-up. Lighten the trigger pull, tighten up the barrel, link, and bushing, and install some decent sights. Add large, wrap-around grips contoured to compensate for the poor grip-to-barrel angle, and you could have a real Magnum-auto ticket puncher.

Regarding ammunition, any .30 Mauser Pistol ammo made up to the original European dimensions should function smoothly, and since the commercial loading of the .30 Mauser is just a little less than the 7.62mm Russian service round, there should be no safety problem (at least not from the ammo—never forget that there's no mechanical safety!). While a few boxes of .30 Mauser Pistol ammunition still seem to be easily available off-the-shelf, it would probably be a good idea to save the empties for possible re-loading. A dependable supply may be

harder to come by in the future unless you roll your own, find a foreign-surplus source (*don't* get any Czech ammo; it's a 20% hotter loading!), or persuade your local dealer to restock this low-demand cartridge.

The Tokarev has been around almost 40 years, but it's a top contender for the title of "Least Known Service Pistol". Loaded with available .30

Mauser ammunition it has real shooting possibilities for both the tin can plinker and the serious ballistics enthusiast. The world situation being what it is, it seems probable that plenty of these stingers will keep turning up in the future, and it's about time shooters started getting acquainted with the neglected Tokarev. 

## IRON SHOT

(Continued from page 33)

currently known technology—unacceptable ballistic performance, erosion or scarring in gun barrels and gun choke deformation—and perhaps most important of all was an economical manufacturing process for iron.

These problems have been in most part resolved by continual development efforts which have resulted in a super soft iron wire, a "hand made" process for manufacturing and ballistic verification of systems effect and mortality studies on "flighted" bird simulations. The one major problem remaining for conversion to iron shot is to develop a system for potential suppliers and production methods.

While suitable iron shot, economically and ballistically acceptable, is on the horizon, American sportsman and conservationists, and particularly the lead manufacturers should understand that shot is not actually in hand. There is, however, evidence to believe that a substitute for lead shot will be eventually available for the sportsman who hunts ducks and geese.

The effect of such a change is undoubtedly of prime concern to you—what will it mean in terms of lead usage by ammunition manufacturers? Currently, the present market for lead used in ammunition, both military and non-military is estimated at 82,000 tons. Predominant shot sizes used for waterfowl hunting are 2 and 4.

Mr. T. R. Evans of the Illinois Conservation Department estimated in a paper presented February 8, 1966, that 6,000 tons of lead were deposited yearly in marshes and other shooting areas. Prediction of the annual loss of lead for this market can be estimated in this amount, however, the actual number will be more directly related to annual waterfowl harvest.

Aside from the current efforts of the ammunition industry to find a lead replacement for shot in shot shell loads, the lead industry is certainly interested in other social and economic factors which will govern ammunition manufacturers.

There have been in the last few

years several factors which have significantly affected the rim fire market. Rim fire ammunition is predominantly .22 caliber. Federal legislation has brought about a consumer buying reversal, requiring that the buyer must be 18 years old to purchase ammunition and additionally, that signatures must be obtained. Market studies have shown that the young people of the country, in previous years, were the major purchasers of .22 cal. ammunition. As boys, most of us probably went to the local service station or hardware store and bought a box, or boxes, of ammunition for plinking at tin cans or target shooting—our boys

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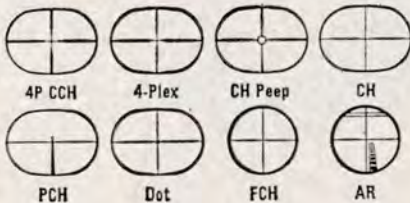
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can no longer do this. In addition, the DCM (Director of Civilian Marksmanship) has reduced participation in many gun clubs through the country—from 6,000 a few years ago to 3,500 at present. The DCM plays an important part in establishing shooting interest among young people and also is instrumental in the procurement of large quantities of this type ammunition. There is also a considerable influence on our domestic market from foreign ammunition manufacturers. These factors can lead to only one conclusion—that there is a definite softening of this market—which will result in less lead usage. Current market predictions indicate recovery; however, slow, to regain the market position of this product.

The center fire market, which comprises revolver, pistol and rifle ammunition, after a few excellent years, has leveled to nearly status quo. We are predicting no significant changes in this market which will affect lead usage.

There is a segment of the shot shell market which is increasing—that of reloading. Historically, the ammunition industry was initially founded by furnishing components to the customer which he loaded himself. Evolving from this concept to manufacturing “factory loads” and now back again

to a large segment of the market reloading. It is not uncommon for an avid trap or skeet shooter in the prime season, to shoot a case of shells (500 rounds) a week. For the majority of people this becomes a hobby which is quite expensive to sustain. Needless to say, the reloader is of great concern to the industry today, and every effort is being made to capitalize on this market.

In the military, there are strong indications in long range plans of new concepts in small arms weapons which will affect lead usage. There have been many published articles on SPIW and other weapon system research programs. There are possibilities that projectiles other than those manufactured from lead will be used.

In summary, we could conclude that there are many active programs and other factors which indicate a softening of lead usage in ammunition. Many of these programs have been pursued for years, and lead is and will continue to be a prime raw material for use in ammunition. There is no known process or material which will economically duplicate the performance of lead projectiles in ammunition. The industry is using approximately 82,000 tons per year and will continue at this rate of usage in the near future.



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## TARGET SHOOTING

(Continued from page 27)

and has an x-ring within which goes only 1.97". The aiming point is a big one; it measures almost 24", but it also takes in all the rings out to the 5! The fact that world-wide target gunners do not compete beyond 300 meters is having its effect on our shooters. It influences them in constructing new ranges to limit yardages to this universally recognized distance.

There are other influences connected with International shooting. One of these is in the rifle which is fired. This is a highly specialized shooting iron which is quite a departure from our former simple target guns. It is strictly Continental in background and, like the new target and the equally new firing distance, takes some getting acquainted with. The rifle may weigh up to 17 pounds, and is virtually unlimited as to sights just so long as they are iron; stocks likewise are free-wheeling with thumb-hole, curved buttplate, palm rest and cheekpiece. The trigger pull is the set trigger kind and the rifle may be any caliber up to 8 mm. This kind of a

target arm has no earthly use off the target range. It has been a cherished concept of ours that even the most refined of our target rifles and the matches we fired had to have some practical application—they got us ready for either war or the game fields. The new International course of fire and its rifle are a pretty far cry from these long standing traditions.

We have fired our matches offhand, sitting, kneeling and prone. The new way of shooting places equal emphasis on only offhand, kneeling and belly-down—sitting is left out. The course calls for an equal number of shots—40 rounds—from each position. The elimination of the sitting position, long a great favorite of ours, is a low blow. By the same token we have avoided kneeling and standing like the plague. Too, our courses of fire have tended to run too much to the prone which is easiest of all. The new centerfire International target, course, and rifle changes the complexion of all of this.

There is also a smallbore International course which is a spitting image duplicate of the big bore. Distances

are shortened to 50 and 100 meters and the target is proportionately reduced. The rifle is the .22 rimfire, so far as caliber is concerned. It has, however, the same generous allowances so far as weight, hooked buttplate, palm rest, and set trigger as its bigger brother. Again the firing positions are standing, kneeling and prone.

This rifle, the targets, the yardages, and the manner of shooting are still pretty new to the majority of American target gunners. I foresee in the next decade that all will be adopted by our marksmen. We have clung far too long to our peculiarly American shooting sport, with its military weapons, home grown targets, and odd-distance ranges. Our obstinacy has cost us dearly whenever we travel abroad to shoot against world competition. To swing over, even though it may very well require these next ten years to accomplish the change, cannot but be good for our sport and, as well, for our national prestige.

Pistol target shooting will likewise show a different face. We have clung, this past half-century, to what has been dubbed the National Match course and the Police course of fire. The former is fired at 50 yards slow fire and 25 yards timed and rapid. The Police course is all shot at 25 yards, slow, timed and rapid. In both cases the target, the old Standard American, is the same. A typical match schedule calls for shooting the .22, .38 and .45 pistols, some nine 10-shot scores with each caliber for a possible score of 2700.

The police have largely abandoned the old bullseye target and, taking as other tangent, have developed their own course of fire which is shot on silhouette targets. Their firing extends from 50 yards down to 7, with either hand, and from the prone, kneeling and offhand stances. What they have evolved is extremely worthwhile. I look for few changes in their course of fire over the forthcoming decade. Undoubtedly there will be some refinements in the course, but it appears to me that they are on the right tack and are combining practice, sport, and utter practicality in their marksmanship.

The National Match course for the run-of-mill handgunner is coming strongly under the influence of the International approach. It is here that I confidently expect changes through the 1970-80 period. The first thing that will happen is to see the old Standard American target tossed out. In its stead will be the International 50-meter target. Firing distances will be shifted to 25 and 50 meters and time limits will be altered. Slow fire will

be banged out on the 50-meter target but rapid fire will be accomplished on the International rapid fire silhouette.

The rapid fire silhouette has internal rings so that it can be scored in precisely the same manner as a conventional bullseye. It has long been a contention of mine that the old National Match course is a phony for the fact that we shoot both timed and rapid fire. Why the timed stage? The distance is the same, the target is the same, why not do it all in rapid fire cadence. This fundamental fault of our older match courses will be eliminated on the new International silhouette.

This target will be shot in two ways. One of these is with the .22 pistol; the course calling for placing one shot on each of 5 silhouettes in time limits of 8, 6 and 4-second time intervals. In another variation, open to both the rimfire guns and the centerfire, the marksman shoots at only one silhouette. This target faces him for three seconds and then it is edged for 7 seconds. He waits with his pistol pointed at the ground in front of his forward foot. Not until the target commences to turn may he lift his pistol and take aim. It is exceedingly good practice. So, too, is the other variation where he must swing the gun from silhouette

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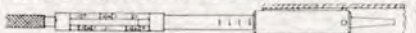
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to silhouette, endeavoring not only to hit each mark but to hit it in the 10-ring.

We Americans developed skeet, the shotgunner's game. We originated it and then settled into a rut where the shooting rules were never changed. We first insisted that the shotgun stock had to be seen beneath the right forearm when calling for the target. We also put in a delay from 0 to 3 seconds in the appearance of the target. It was found that in match shooting someone always fudged on keeping the gun in the low position. And so far as the delay timing was concerned there was a class of gunner who wanted the sport made easier so he could smash 'em all. He was successful in getting an instantaneous release of the saucer. It was different on the Continent. Over there our American game was seized upon and gained some measure of popularity. However, the Europeans insisted on a low-gun stance. So low, as a matter of fact, that the butt must rest on the hip; and delay after calling for the target may run up as high as 3 seconds. Along with this, the targets are thrown faster, harder and more distantly. If this were not enough the clay bird was slightly reduced in size and is made considerably harder to resist the rough handling of the stronger trap.

Whenever we shoot internationally,

and the chances of changing or altering it much over the next decade or the next several decades looks pretty dim to me.

International trap, like skeet, is considerably different. In this sport all the shooting is at 15 meters (16½ yds) but the bird may come from any one of 3 traps, situated in a trench before the firing post. There are 15 traps altogether in the trench and may throw targets from as much as 45 degrees left to 45 degrees right and heights can vary from only ¾ feet off the ground to 13 feet above the surface. Along with this, the bird must travel 77 yards, which means it is thrown harder and much faster than our 55-yd. bluerocks. The mark again is slightly smaller than our standard saucer and is made considerably harder. The only advantage the marksman has is that he may fire 2 shots at each target. This is a tough game, as you can appreciate, and while it is making some gains in this country I fail to see where it is going to displace our regulation trap game over the next 10 years.

There is an entrancing new shooting sport which I confidently expect to become popular in the years ahead—the running boar. This was first the running deer and was shot at 100 meters. Now it has been standardized on the running pig and the distance



whether in the Olympics, the World Matches or other ranking events, we are compelled to shoot according to International rules. This has had its effect on our skeetmen and there is a gradual swing to the Continental style. Over the coming decade there will be more of this, but I wonder if the average American skeet shooter is going to stand still for a toughening of his pet sport. Maybe, but I doubt it.

By the same token, we shoot regulation trap by our own standards. This is with a single trap and based on a handicap system. The rank beginner commences at 16 yards and as his skill and scores increase he is moved back, yard by yard, to the somewhat fantastic handicap of 27 yards. This sort of game appeals to our trap gunners

has been shortened to 50 meters. This is a concession to our expanding population and the easier business of finding a 50 meter range rather than one of one hundred meters.

The running boar is an extremely practical sort of shooting match. And one of the best parts of the equation is that almost any sort of shooting iron can be used. Match rules specified that the rifle could be any centerfire, with iron sights but could not be an autoloader. This year this has now been liberalized to include .22 R.F.

The match rules call for two kinds of runs. One is for a single shot during the run, and the other is for 2-shot runs. They also vary the speed of the crossing and the target may take 5 seconds to flit across the 33 ft. open-

ing or it may zip through the shoot-able zone in only 2½ seconds. The gunner does not know beforehand just what the speed will be. This really keeps him on his toes!

I predict this match is going to enjoy a lot of popularity. It needs no great amount of space for the shooting range, the boar runs on a single rail, powered by electricity. It permits any kind of firearm, even pistols, and those rifles—the levers, pump-action and automatics—not usually considered to be target types are quite useable. The fact that match rules do not permit either glass sights nor self-loaders can be readily set aside at local level.

I would speculate that the decade will have small influence on the benchrest fraternity. This group numbers only a few thousands nationwide, and their game is not likely to attract any great additional numbers. These shooters are the extremely dedicated. Their sport appeals to only those few individuals who are intensely devoted to the search for better rifles and improved loadings. While the sport may hold small appeal for the mill-run of marksmen it cannot be sold short. These experimenters contribute markedly to better guns and better cartridges. But so far as benchrest

shooting enjoying anything like a boom between now and 1980, I hardly see it as much of a possibility.

Of the millions who shoot every year only a relative small number fire on paper targets as a regular thing. One of the reasons the target game does not appeal to more of our marksmen is that it holds scant spectator appeal. While punching holes in the black mark may entrance the shooter it certainly leaves the onlooker cold. What we need is a brand new shooting game. The last time we invented a really completely new shooting sport was in 1926 when skeet was ushered in. This shotgun sport was a long time developing. Tales are told that a variation, a crude beginning, was commenced about 1912, and that by 1926, it had been refined until two national magazines, now both defunct, commenced to publicize the game. The publications held a contest and asked for a name for the game. Skeet was suggested and approved. That was 44 years ago and we haven't come up with anything new since. The new match firings we've discussed here are imported from the Continent; they are not new. What we need is a completely original new game.

We need a kind of shooting game where the spectator can enjoy looking

on. One that will hold his interest quite as keenly as does baseball and football. A game where there is movement, action and suspense. It has been suggested that in future matches a TV screen will be placed behind each firing point so that hits on the target will be shown instantly on the screen. This is the kind of thing we need. But it must go beyond this and the target should burst into flinders, or give off a ringing bell-like sound when the X ring is struck, or blow up with a flash of flame and noise.

Too, the game should encourage not just the refined target rifles but the hunting arms; those old lever guns and the military surplus bolts, along with the pump guns and the automatics. And boys with their .22 repeaters should have a chance. The game, in the direction it is headed today places more and more premium on highly specialized kinds of shooting irons. This narrows the interest and limits the entry. This is precisely the wrong direction, we need a shooting game that is so oriented that it will hold out invitation to not a thousand newcomers annually but a hundred thousand. To do that there must be matches, targets, distances and guns that will let all our gunners participate.



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ever, the fore-end is abruptly lopped off at a 90-degree angle to the bore axis, thus exposing open space between magazine and barrel. And from the mid-point of the fore-end to the magazine cap, the wood is turned in spool fashion so as to enclose only the magazine tube.

Whatever reasoning lay behind this design is subject to conjecture. I would prefer to believe the designer thought that, because the gun was to be used for rapid, semi-automatic fire, the barrel needed to be air cooled, and he provided the open space for such circulation. Anyway, whatever his reasoning, it is different!

Metal parts of the Sjogren appeared to be well machined and made of the best quality steels of that day, which is about what one would expect in guns manufactured during the early 20th century.

The take-down system of the Sjogren is much like that of the Winchester Model 12 pumpgun: The magazine cap must first be twisted to disengage locking threads, and then the magazine tube is drawn forward so the barrel extension can pivot freely in the receiver ring. A quarter twist of the barrel then unlocks the two parts for cleaning or carrying. Quite possibly, Axel Sjogren pilfered this idea from John M. Browning also,

since another of Browning's inventions, the Winchester Model 97 pumpgun, was already on the market before Sjogren obtained any patents on his Automat, and the Model 97 had an identical take-down feature.

most resembles a rear rifle sight.

Another odd feature of the Automat is that it has two safeties: One is a Mauserish lever which, found at the rear of the breech bolt, serves to lock the firing pin. The second safety is a



The Sjogren's action release is a latch-type mechanism similar to that of the current Remington 1100 and its predecessor, the Remington 58. Likewise, the action is driven forward by a spring inside the butt stock. A bridge extending rearward from the top of the receiver ring provides top-side alignment for the action's travels, while the fore section of this bridge holds an elevated sighting plane which is matted and so concave that it al-

tang-type button like those found on most break-open shotguns and it locks the trigger assembly. Both must be in their "Off" positions before the gun can be fired, while the Mauser-type lever must be flipped to its "On" position before the breech can be opened for the removal of a loaded shell.

But it is really the receiver and breech bolt assembly that makes the Automat a weirdo. For whereas modern autoloaders have their mech-

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anisms enclosed in a receiver and guide their breech bolt's travels by means of a slide plate moving in milled slots within that receiver, the Sjogren System does no such thing. Instead, as I mentioned earlier in this piece, the Automat's breech block is fully exposed except for a hooded shield. Moreover, the action's travels are guided by rails machined atop the receiver flat rather than milled grooves.

The unlocking/ejecting/reloading cycle of the Automat parallels that of most other autoloaders based on the inertia block principle. The initial effect of recoil sends the block backward, and the momentum thus developed provides the energy for releasing the locking system and sending the breech bolt scooting rearward. From then on, the moving breech bolt and the shell released from the tubular magazine provide whatever force is needed to release latches and trip dogs vital to the reloading sequence.

Unfortunately, however, the Sjogren System is hardly jam-proof. Practically every Wanda shell fired through the particular Automat pictured never cleared the port, and many, many Remington and Winchester loadings also failed to eject. Yet, when put through other makes of autoloaders, shells from the same boxes were flung far afield without fail.

The reasons for such hang-ups could be numerous, and it would take a book to discuss possible flaws in the Automat's design and timing. Suffice it to say, therefore, that the Sjogren is not a slickety-click fowling piece.

If there is one bright spot in the Automat's performance, it is with regard to patterning. The Sjogren I shot printed extremely well, giving 75 per cent clusters with Wanda hulls factory-stoked with 1 1/8 ounces of 7 1/2's above a 3-dram equivalent powder charge. The same percentage figures appeared with Remington maximum loads spewing an ounce and a quarter of chilled 5's, which isn't hard to take if you happen to be a waterfowler skulking in the weeds when birds are swing wide of the decoys.

Basically, though, the Sjogren is a sorry shotgun. It has an odd feel and a weird appearance. European waterfowlers junked it because of the way it continually malfunctioned, and Americans certainly have no use for it because their current crop of gas-operated scatterguns are much more reliable.

Thus, the Sjogren Automat has been relegated to the role of an odd-ball collector's item, which is exactly where it belongs.

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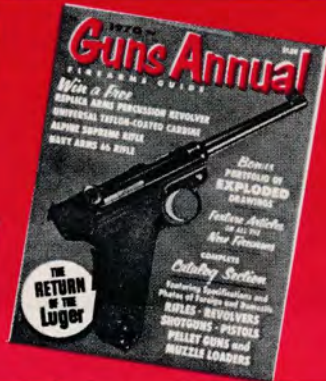


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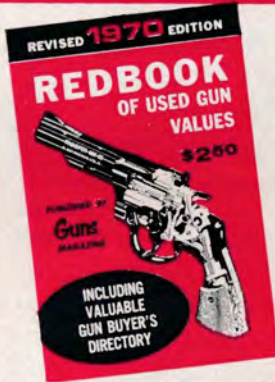
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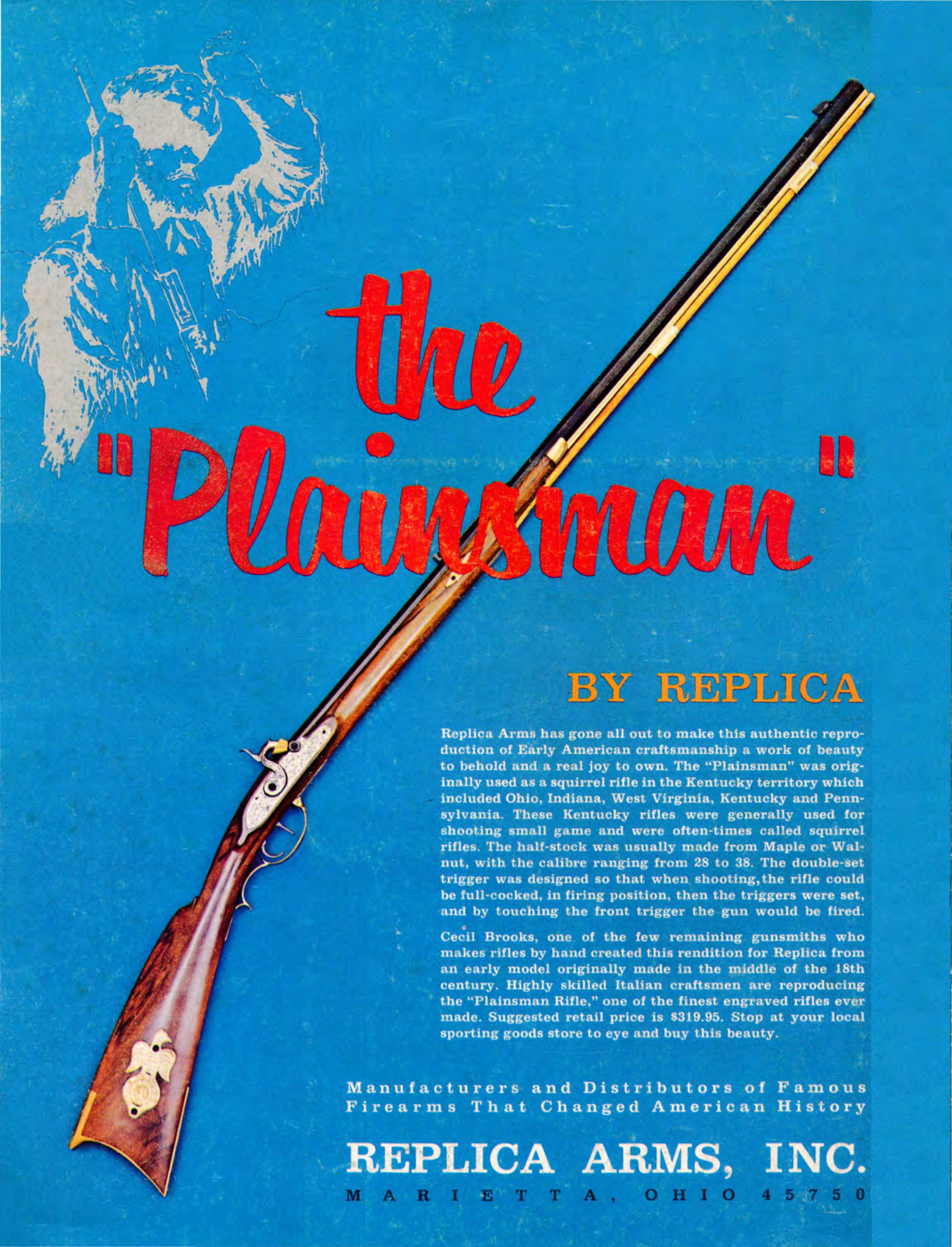


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