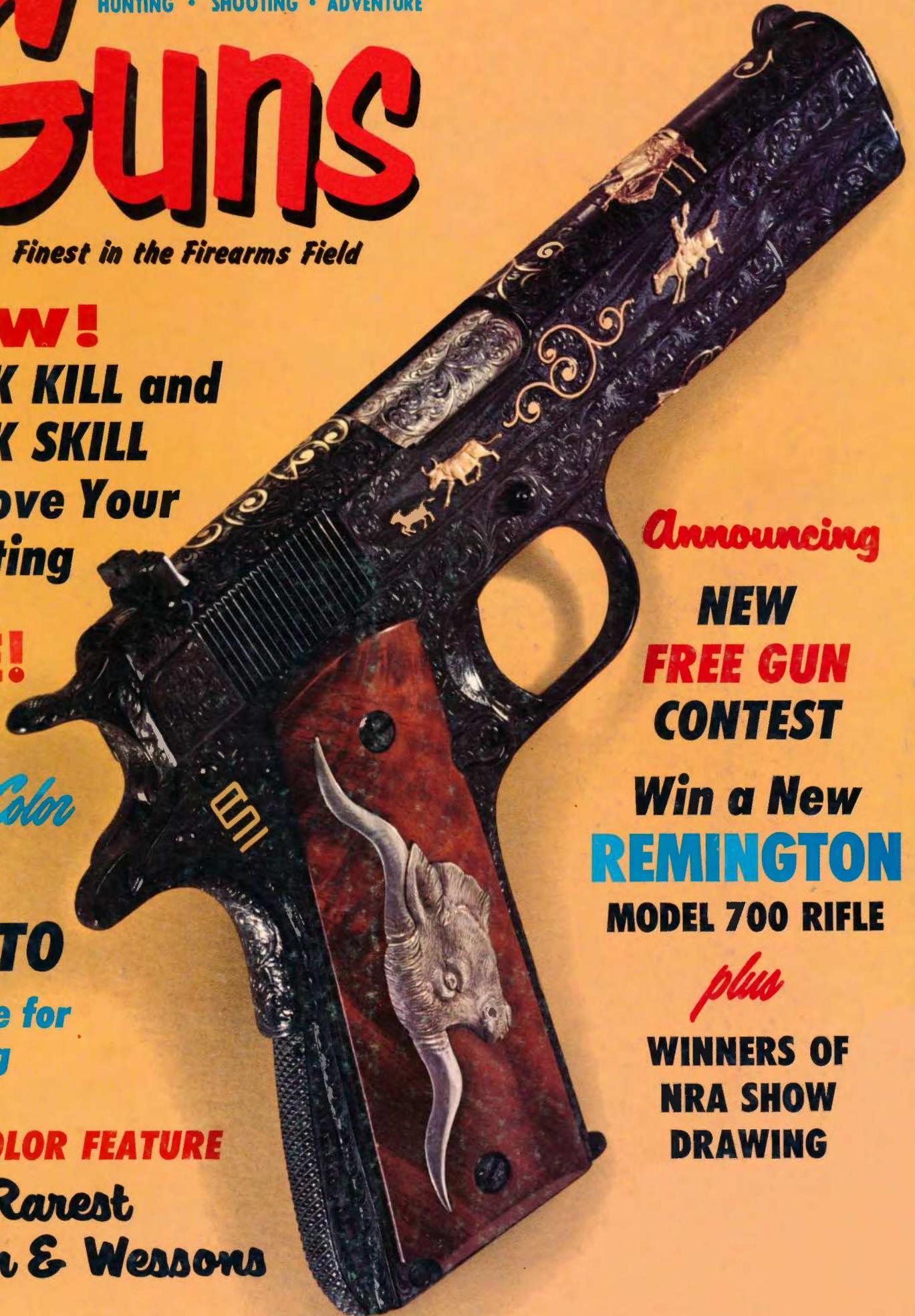


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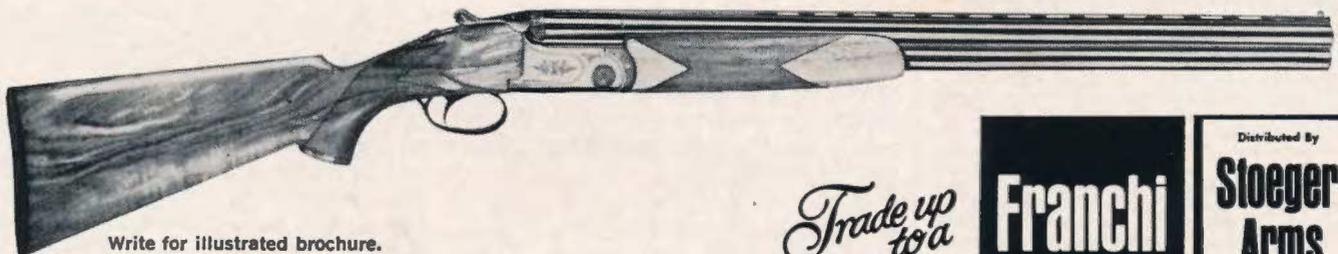
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TRIGGER TALK

IN THIS ISSUE, we announce the winners of three more free guns. These were given at the recent NRA Convention in Boston. We want to congratulate the winners, thank the firms cooperating with us in this contest—J. L. Galef and Sons; Navy Arms Co.; and Jana International—and express our appreciation to all of those who came by our booth to offer words of praise, suggestions, and constructive criticism. It was a real pleasure meeting so many shooters, hunters, and gun collectors, and finding that they appreciated the efforts of our staff to bring you the Finest in the Firearms Field. George Nonte and Col. Charles Askins take you on a word and picture tour of the exhibit hall at the NRA Show. The 1969 NRA Convention will be held in Washington; if you can attend, you'll spend some of the most rewarding hours talking to manufacturers, collectors, and fellow shooters.

• • •

Also in this issue is another great contest. This time you have a chance to win a new Remington Model 700 BDL rifle—in your choice of many popular calibers. Keep those entries coming—as long as our readers demonstrate their interest in these contests, we'll keep bringing them to you.

• • •

Two staffers approach the problem of gun legislation from different angles in this issue. E. B. Mann presents a careful study of the over-all problem, with a lot of meaningful ideas. Col. Rex Applegate, who was never known to keep an opinion to himself, approaches the problem from the point of view of the law enforcement officer—the man who will be expected to enforce any legislation restricting the use or ownership of guns by our citizens. Both of these articles should be read by every gun owner.

THE COVER

The Colt "Ace" .22 auto pistol, handsomely engraved and gold inlaid by Alvin White. Relief chisled steer head on select walnut grips, also by White. This gun is in the Robert Q. Sutherland collection. Photo by Richard Millard.

AUGUST, 1968

Vol. XIV, No. 8-08

George E. von Rosen
Publisher

Guns

FINEST IN THE FIREARMS FIELD

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Panel of Experts

.300 Win. Mag. vs. .300 Wby. Mag.

If loaded by hand with the best powder, primers, and bullets, can the .300 Winchester Magnum be made to equal the Weatherby .300 Magnum as far as accuracy, trajectory, and power are concerned?

What barrel length, between 24" and 28", would be best as far as accuracy, trajectory, and power are concerned?

Which steel is best for barrels in terms of barrel life?

Stanley Rosenblum
Long Beach, N.Y.

Accuracy is determined by quite a number of factors, but case shape is not one of them. Assuming all other factors are equal, the .300 Win. Mag. and the .300 Wby. Mag. will be equal in accuracy. The .300 Win. Mag. case has an average capacity of 83.6 grains of water to the base of the neck. The .300 Wby. Mag. has an average capacity of 91.7 grains of water to the same point. Consequently, the Weatherby case has an advantage of almost eight grains in case capacity over the Winchester. Taking this into account, and assuming that both cases will be loaded to the same pressure, the Weatherby will always produce higher velocity than the Winchester.

Barrel length will have no significant effect on accuracy. Consequently, a 24" barrel will be just as accurate as a 28" barrel. At normal hunting ranges, the differences in velocity produced by 24" and 28" barrels—being on the order of less than 100 fps—will not have any significant effect on trajectory.

Most barrel makers today agree that a good chrome-molybdenum alloy steel makes the best barrel. While there are minor differences between the steels used by different makers, all generally use this type.—G.N.

Winchester 70 to .300 Mag.?

I have a model 70 Winchester, .270 caliber. Is it possible for this gun to be rechambered and rebored to a .300 or .338 Win. Magnum? If so, would it be practical from a cost standpoint?

Joseph Fuhrman
Ursa, Illinois

If your model 70 Winchester is the older standard weight 24" barrel version, it is possible to have it rebored and chambered to .300 or .338 Win. The bolt face and extractor would have to be opened for the belted magnum case head, and some rail alterations made for proper feeding. Any of the gunsmithing firms advertising re-boring could do the work. Usually, it is just as economical to have a good custom barrel installed. If you want the magnum, it is practical from the cost viewpoint. Approximately \$8 to \$10 will cover the bolt, extractor, and feeding work. The re-boring cost, plus chambering, comes close to matching the cost of a new barrel. Depending on the gunsmith's prices, these run from \$50 to \$65.—W.S.

French Navy Model 1837

My friend has an old percussion pistol which he says his uncle picked up in Southern France during WWII.

The description is as follows: percussion pistol; "M R de Chatellerault" marked behind the hammer on the sideplate; "M 1837" on the top rear of the barrel. It has a brass butt cap with a lanyard ring, a brass trigger guard, and a single brass barrel band. All other metal parts have a bright finish. The bore is smooth and the caliber is between .50 and .60. Barrel length is six inches. The ramrod is reversible and there is a belt physical on the left side. The overall physical configura-

tion is very similar to the U.S. model 1842 Aston. It would be rated in NRA good condition.

What type is it, and what is its value?

George S. Winat
Rhineland, Wis.

Your French made percussion pistol is a Naval Model of 1837 with a 201 mm barrel length and back action lock. It is a well made military pistol and is much sought after by military and Naval arms collectors. In fine or better condition I would value it at around \$125.—R.M.

Springfield Info

Could you give me a concise, yet definitive, low down on the Springfield rifle? I have two questions. What are the most desirable models in reference to resale value? Who has information on how to sporterize a Springfield?

Lee Church
Jersey City, N.J.

Some Springfields are considered safer than others and accordingly fetch more in the market place. The more desirable are those made at Springfield Arsenal with serial numbers over 802,000 and those made at Rock Island Arsenal with serial numbers over 286,000. Also to be avoided are Springfields with AV stamped at the muzzle; this identifies barrels furnished by the Avis Rifle Barrel Company of New Haven, some of which were incorrectly heat treated—with reported failures. Sam Worth, Georgetown, South Carolina put out an excellent booklet on sporterizing the Springfield; you might write him for one. Or try your local Public Library for a copy of the "Modern Gunsmith" by James V. Howe.—S.B.

Replica Antiques

I have a small collection of restored antique guns but need a muzzle loader or musket to add to it. I seem to recall reading about a small company that is making replicas of this type of gun. I would appreciate your help in locating such a firm.

Wayne Vernon
Orange City, Ia.

Two companies producing replicas of percussion revolvers and rifles—and turning out fine items are: Dixie Gun Works, Union City, Tenn.; and Navy Arms Co., 689 Bergen Blvd., Ridgefield, New Jersey. I suggest you send for the catalog of the arms they retail.—R.M.

Primers Can Be Dangerous!

I have a reloaded .30-06 cartridge from which the powder has been removed. I would like to know if it is dangerous. Can the primer be accidentally fired, or is it harmless without the powder?

Jerry Gregson
Sanford, N.C.

Firing a cartridge containing only a primer can set the stage for an exceedingly dangerous accident. The force of the primer alone is just sufficient to drive the bullet from the case and into the rifling. In some instances, it will drive the bullet deeply enough into the rifling so that a subsequent cartridge can be fully chambered. If this next cartridge is fully chambered and fired with the first bullet stuck in the barrel—well, the results are obvious. Consequently, any time the report, recoil, or bullet effect on a target are not as they should be, the bore should be checked to make certain it is clear before any additional rounds are fired. One should also keep in mind that primers pose a potential hazard at the reloading bench. Don't take the power of primers too lightly! —G.N.

Anschutz Trophy Pistol

In going through some of my old magazines I came across an article I had missed in the September 1964 issue, by Chas. Logie, on the Anschutz Record Match Pistol and it was extremely interesting.

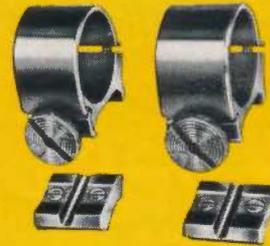
I have one such pistol, Model 200, which came into my possession in 1945 in Liepzig Germany. On the rear sight extension is engraved, "UDO-ANSCHUTZ 6848 ZELLA MEHLIS". On the base of the adjustable hand grip is a silver plate with the following inscription: "Der N.S.G. vom H.P.C. gew 1939." The Pistol is in near mint condition. What would its value be to an interested collector?

Lt. Col. F. C. Armagost
Fresno, California

It would appear that your gun was a trophy awarded to a winner of a rifle match in 1939. I can not, from the initials alone, identify the sponsors of the match. The intrinsic value of your gun in near mint condition would be \$175-225.00; this, of course, would be increased if the recipient turns out to be of historical importance. You might consider contacting some of the shooting associations now operating in Germany—they keep such records forever.—S.B.

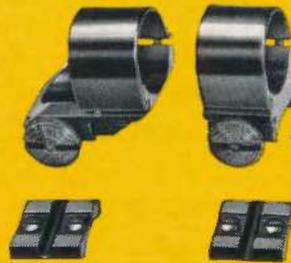
(Continued on page 16)

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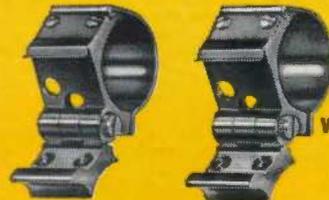
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**HANDLOADING
 BENCH**

By MAJ. GEO. C. NONTE

MILITARY SURPLUS ammunition is considered a blessing—particularly in view of its relatively low price—by a great many shooters. We think it is, too, but its use can present a few problems from time to time. Because of this, we occasionally hear from people who roundly condemn all military surplus ammunition. Let's take a look at the "big picture."

The word "surplus" and the low prices should give a fellow an inkling that there might be some disadvantages involved in the use of such ammunition. There are, for its quality ranges from recent production that meets all specifications, down to 75-year old stuff, green with age, and productive of misfires and split cases.

"Surplus" ammo falls in two general categories: that which is in perfect condition, but in excess of the needs of a government due to an oversupply, or a change in caliber or specifications; and that which is not truly "surplus," but has been condemned for such various reasons as excessive misfires, inadequate accuracy, age, exposure to elements, or damage. It could more correctly be termed "salvage." Ammunition in the first category normally causes no complaints. And, it is priced accordingly, sometimes only slightly below the cost of comparable new commercial ammunition. The second category, however, has caused considerable wailing and gnashing of teeth—to wit: misfires; failure to function in automatic weapons; poor accuracy; substandard velocity; fired cases not suitable for reloading; failure to chamber because of dents or corrosion; split necks; etc. etc.

Unfortunately too many shooters fail to recognize that ammunition of this sort must have *something* wrong with it, or it wouldn't be available so cheaply. One importer put it very succinctly, saying, "Of course you'll get an occasional misfire—if this stuff was perfect we'd charge a lot more for

it." And, so it is. If you use surplus ammo—and millions of us do—*expect* at least some minor difficulties. Use it only for purposes where a misfire or malfunction will not cause danger or undue inconvenience. Don't be like one hunter who spent \$700 on a big, important (to him at least) hunt—but took along 3¢-per-round dirty surplus ammunition in which he'd had a friend switch the bullets. Sure enough, he had a misfire and lost a chance at a fine buck. All to save \$3 or \$4 on a box of ammunition.

In short, understand just what "surplus" ammunition is, and use it accordingly. Remember that it is surplus for a reason, and the cheaper it is, the more likely it is to give occasional minor difficulties of some sort. Reputable dealers won't sell you anything dangerous, but neither can they peddle fresh National Match ammo for 2¢ or 3¢ per round.

Periodically we hear from someone who has just received a nasty shock when what he *thought* was a fired primer went off with a BANG! This usually results when cartridges that misfired are accumulated with the intention of salvaging cases and bullets. Sometimes bullets are pulled and powder dumped, then the cases are set aside for later decapping. And then the handloader forgets those primers never fired. He runs the cases blithely through resizing-decapping procedures and suddenly, a primer lets go. Fortunately, when this happens, the shell holder and ram usually confine the explosion so that no one gets hurt. But, it's still disconcerting.

On the other hand, if one happens to be decapping Berdan-type cases with a cap-awl or tong-type decapper that pierces the primer cap, things can get very nasty, indeed. It's only natural to be watching the tool point enter the primer—and if a misfire lets go then, serious injury can result. The primer cup flies out of the case just like, and deadly as a bullet.

Misfired primers are *not* dead primers. In fact, a single firing pin blow that doesn't ignite the primer may actually sensitize the compound so that the next very slight impact will set it off. The only safe way to remove a Boxer-type misfired primer is in a loading press where shell holder and ram deflect it away from the operator. And, work the handle gently. When it comes to Berdan-type primers, use the hydraulic method.

Occasionally a need will arise to remove unfired primers. The same precautions apply here, along with a few more. Boxer cases without primer crimp don't normally give any trouble, however, the primer anvil may be displaced by the decapping pin. There is also the probability that the primer pellet will be cracked, or even crumbled. Either, of course, spoils the primer for subsequent use. It will probably still go "bang," but performance will be very erratic. If crimped-in primers are being removed, they will almost invariably be completely spoiled, and its quite likely a few will ignite in the process. Live Berdan primers removed hydraulically will be soaked and useless.

When removing live or misfired primers, make sure you collect them all. I know of more than one instance of a primer being ignited by friction and/or impact when scuffed on a concrete floor. I've always disposed of live or misfired primers by dropping them into a can of penetrating oil, then later tossing them in a deep spot in the nearest river.

We continue to get queries about proper ammunition and loading data for use in Spanish pistols marked "9mm/38." There are three guns com-

monly encountered with this marking, and all are chambered for the 9mm Bergmann - Bayard cartridge, also called "9mm Largo," "9 mm Magnum" or "9mm Magnum Long." This cartridge is loaded in a rimless case 0.91" long, and it headspaces in the case mouth, a .1a .45 ACP. Consequently, none of the shorter 9mm cartridges (.380 ACP, 9mm Parabellum, 9mm Browning Long) are safe to use. Their shorter case produces automati-

cally a grossly excessive headspace condition that often results in misfires, ruptured cases, and gun malfunctions. In addition, they often fail to feed correctly from the magazine. Three guns are most often involved: the "water-pistol" Astra M400 (sometimes marked M1921) with its unlocked breech; the Llama "Extra" copy of the Colt/Browning M1911; and the Star Models "A" and "B", also modified copies of the Colt-Browning, but lacking the grip safety and separate mainspring housing. In the absence of proper 9mm Berdman-Bayard ammunition or cases, you can still shoot and handload for all three guns. All three will usually accept and function safely and reliably with the .38 ACP (.38 Colt Automatic) whose bullet, working chamber pressure, and velocity are virtually identical to those of the 9mm B-B. The .38 ACP case is of the correct length, and diameter but has a slightly larger diameter case rim upon which it headspaces in Colt guns. When one of the above guns will not accept this case, you may either reduce rim diameter or open up the breech face to fit. Fired cases may be reloaded in .38 ACP dies, but should not be crimped on the bullet.

The makers state that Llama and Star pistols may be safely used with .38 Colt Super Automatic ammunition.

Consequently, you may load for all 3 guns with .38 ACP or .38 Colt Super Automatic cases, 9mm bullets, and domestic powders and primers—utilizing published .38 ACP loading data. For the Llama and Star pistols, the same components may be used with .38 Colt Super Auto loading data.

.38 ACP for Astra, Llama, & Star

Bullet	Weight	Powder	Weight	Velocity
#358242	121 gr.	Unique	4.0 gr.	1080 fps
F.J.	130 gr.	Bullseye	4.2 gr.	1025 fps
Speer S.P.	125 gr.	Unique	7.0 gr.	1225 fps

.38 Super for Llama and Star ONLY

#358242	121 gr.	Unique	5.0 gr.	1200 fps
F.J.	130 gr.	Unique	7.5 gr.	1300 fps
Speer S.P.	125 gr.	Unique	7.5 gr.	1340 fps

only encountered with this marking, and all are chambered for the 9mm Bergmann - Bayard cartridge, also called "9mm Largo," "9 mm Magnum" or "9mm Magnum Long."

This cartridge is loaded in a rimless case 0.91" long, and it headspaces in the case mouth, a .1a .45 ACP. Consequently, none of the shorter 9mm cartridges (.380 ACP, 9mm Parabellum, 9mm Browning Long) are safe to use. Their shorter case produces automati-

For you lazy characters who don't want to look it up, the table has sufficient data to get started.

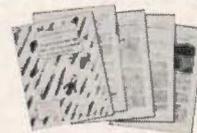
Incidentally, if you encounter difficulty in locating enough .38 ACP brass, George Spence, Dept. G-8, Steele, Missouri, alters .38. Special cases to 9mm B-B caliber. Being slightly smaller at the base than 9mm B-B or .38 ACP, they bulge just a bit at that point, but they work fine with all reasonable loads.

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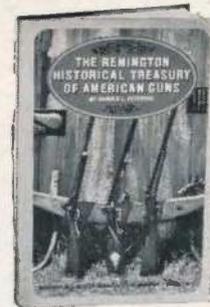
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Air Gun Buffs

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As a veteran gun buff I have just recently discovered the wonderful world of the Air Gun. I am currently shooting the Crosman CO2 and Walther pistols, both air spring and compression models. Here is something every serious shooter should look into. For dry-fire practice, pest shooting, plinking or serious target cutting they are really something. They can be fired in your own back yard or den. No noise, more accurate than most .22 powder shells at nominal range, few law restrictions and available to every pocket book. I would sure like to see some continuous articles or a section of your fine magazine devoted to this subject. I wonder how many other readers have discovered this field—and would like more information on the various air guns and pellets.

Gene Royer, President
Taylor Gun Club
Taylor, Texas

Dump A Few

I read with interest Charles Askins' article "Let's Dump the Obsolete Handgun Cartridges." It would seem that Mr. Askins has lost sight of the true purpose of a pistol or revolver cartridge. He seems only interested in the hot magnum loads. Except for the .357 magnum all magnum loads should be dumped. They have no place even for police work. Nine of every ten pistols or revolvers are used for home protection or plinking for pleasure. The magnums do not fit this purpose.

First, the pistol is not a hunting

arm. No real sportsman will strap on a three pound magnum, carry it all day and maybe use it once in five years. If he is to face dangerous game he would want a good rifle.

I own about twenty pistols and revolvers and shoot a lot. Three years ago I bought a Ruger .44 magnum. It's a fine gun but I have shot it twice and probably will never shoot it again. It's just too much handgun.

I agree with Mr. Askins that some obsolete revolver cartridges should be dumped, but I can't agree with his choice. In illustration #1, the .38 Auto Colt should go, but let's keep the .380, one of the best plinking and home defense cartridges. Illustration #2, let's keep the .44 S & W Spl., .45 Colt, .41 Colt, .45 Auto Rim. The rest Mr. Askins can dump. In illustration #3 let's dump the .41 Mag., .44 Mag. The rest are all good pistol and revolver cartridges. I might add that the .44 Spl. is better than the .38 Spl. for police work. If Mr. Askins wants to hunt big game he should get one of our many fine rifles. Let's keep the handgun as an arm that more people can and will use.

I might also add that guns for the .25 Auto and .32 Auto will be with us for a long time.

Lee M. Rice
San Leandro, Calif.

Charlie's Mustache

I have just finished reading "Let's Dump The Obsolete Handgun Cartridges" by Charles Askins. In his argument for practicality, Askins loses sight of the fact that many people enjoy shooting the old guns of which he is speaking. I have, among other

weapons, four revolvers, one of which is a .41 long Colt; and I enjoy shooting it. The fact is that almost all of the shooting done in the U.S. is for enjoyment of the individuals concerned. If strict practicality and economics were of primary importance, why not have only one caliber pistol and rifle and one gauge of shotgun.

Oh yes, what's practical about Charles Askins' mustache?

Lt. John Dalton
Ft. Ord, Calif.

Askins Makes Sense??

It was a refreshing treat to pick up the May issue of GUNS and read an article by Charles Askins that makes sense. I have noticed that over the last few years Mr. Askins has campaigned vigorously and sometimes vitriolically to "dump" a particular group of cartridges or style of gun. My usual reaction upon reading such articles is that we'd be better off to dump Askins instead. His article on obsolete pistol cartridges, however, represents a marked ascension from his usual depths.

I would like to add two comments of my own. First, I would be hesitant to dump the .380 auto. It seems to be the most potent cartridge that can be packed into a small automatic pistol. Many people with small hands can not do good one-hand shooting with large frame pistols, yet still want a relatively large-bore cartridge for a defense gun. What should be dumped, of course, is the ridiculous full metal jacketed bullet in the .380. A good, rapidly expanding hollow-point would be much better for dissuading a would-be attacker.

Secondly, I agree with Askins that it is too bad that today's pistol manufacturers overlook the .30 Luger and .30 Mauser cartridges. These both have fine ballistics and no doubt could be steamed up even more with judicious use of the wide range of powders available today. It is unfortunate that anyone wanting to shoot one of these .30 caliber cartridges must pay "collector's item" prices for a Luger or Mauser.

Harold Schobert
Ames, Iowa

The Idiots and The Careless

Hurrah for "Trigger Talk," May, '68. It's the idiots and the careless that make it hard for the rest of us.

Let's have more of these.

James Townes, Jr.
Minter City, Miss.

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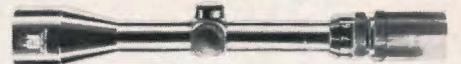
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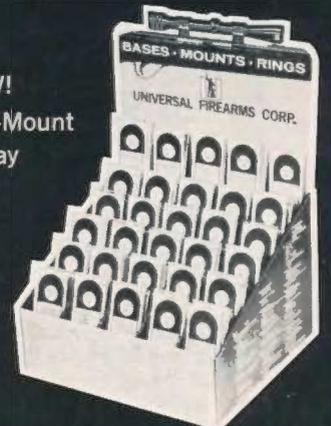
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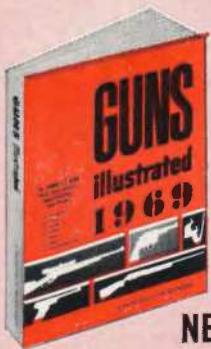


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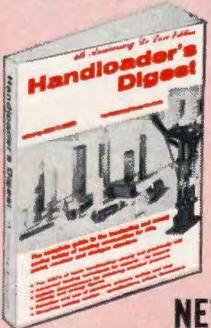
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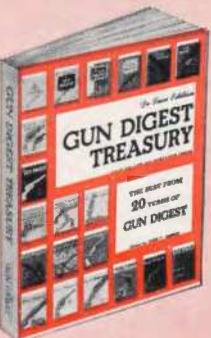


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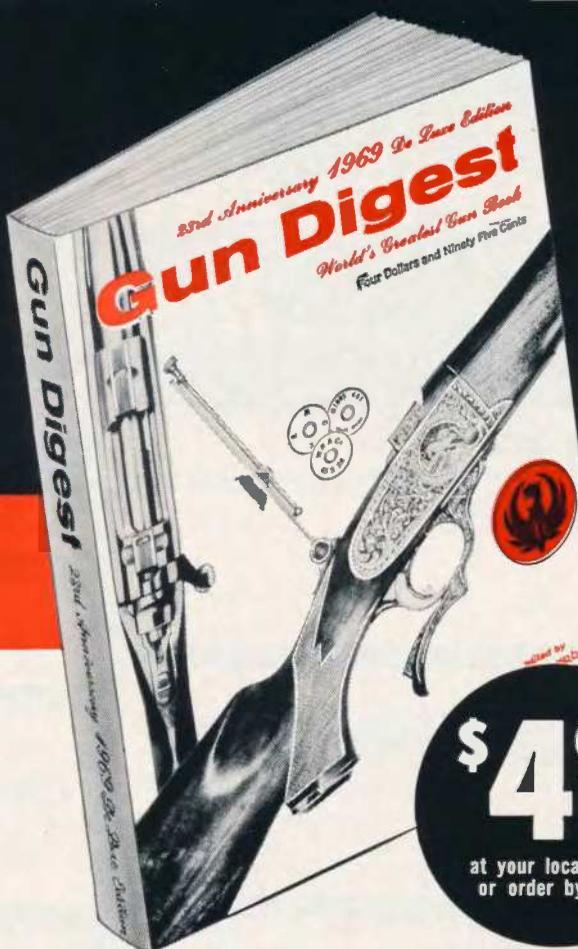


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Usually they are—but in some cases, as detailed here by a longtime terror of the typewriter, error does creep in, and rarely is a retraction published. That's the basic purpose of this article—not to cast stones. If our goal was to be hypercritical, we'd get as many lumps as anyone, as is proved herein.

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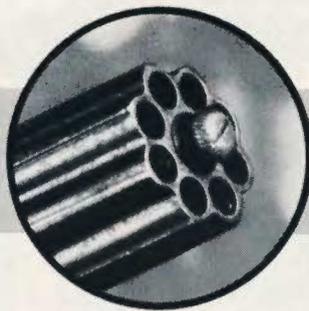
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COLLECTOR'S CORNER

By **ROBERT MANDEL**

IT WAS APPARENT to everyone attending the National Rifle Association Annual Meetings and Exhibits that the individuals of the various NRA affiliated gun collectors organizations, who loaned their guns for the displays and that those who aided in setting up and manning the displays, put in tremendous time and effort to create the fine exhibits of collectors firearms that once again graced the NRA exhibit. High on the list of top displays was the Early American Gunsmith Shop set up by the Long

play. Just one example of the great arms to be found in this display was a truly beautiful cased pair of the rare Colt 1861 model Navy pistols engraved by the famous Gustav Young presented by E. K. Root, president of Colt, to a long time employee of the company; also a magnificent pair of engraved .41 caliber pistols by the Volcanic Repeating Arms Company, examples of the largest handguns made by that company; and last but not least, a fine Sharps percussion-lock rifle with its unusual left-hand



The "Early American Gunsmith Shop" drew large crowds at the NRA show.

Island Antique Gun Collectors Association. This exhibit was designed to demonstrate the art of the gunsmith as it was practiced in the 18th and 19th century. On display in this exhibit were several muzzle loading rifles of modern manufacture, and several examples of the work of the early gunsmiths of different regions of our country, as well as examples of the fine restoration work that has saved these old guns for those who come after us.

Artistry in American Firearms was presented by the Ohio Gun Collectors Association. Sixteen of the finest engraved and presentation collectors arms were to be found in this fine dis-

instead of the usual right-hand lock. Its beauty, however, was enhanced by the engraving at the breech, and on the frame, hammer and lock-plate by the well-known engraver, Gustav Young.

For the first time the Ye Connecticut Gun Guild participated with a fine display of Connecticut Yankee Craftsmanship at its very best. A few of the exceptional firearms of this 70 piece Connecticut display was a huge all brass whaling gun made in New London, Connecticut in about 1862: An 1873 Winchester factory engraved rifle with factory letter that states this gun to be the first one to leave the factory engraved; a Committee of Safety

Flintlock Pistol about 1776, an extraordinarily rare gun by Nathan Bailey of New London, Conn. marked S. C. (State of Conn.); a Walker Colt Revolver, made in Whitneyville, Conn., rare, and one of the finest specimens to be seen it is known as the Aaron Pulhamous Gun (the man who originally worked at the Whitneyville Plant).



Map of early N.H. gunmakers.

"This province has raised 1,000 riflemen, the worst of whom will put a ball into a man's head at the distance of 150 or 200 yards. Therefore, advise your officers, who shall hereafter come out to America, to settle their affairs in England before their departure," August 17-19, 1775. This prophetic letter from a Philadelphia printer was reprinted in the London Chronicle, and certainly reflected the fame and reputation of the colonial ri-



Springfield Armory display.

flemen. These Allegheny hunters, Indian fighters, frontiersmen and backwoodsmen always shot the same gun, the rifle which originated in Lancaster County, Pennsylvania early in the 18th century. A fine display of top quality and rare models of Kentucky rifles and pistols was shown by the well known Kentucky Rifle Association.

In commemoration to the many Dutch settlers in Michigan, the Michigan Gun Collectors Association presented one of the most unique and educational displays. It was not only a fine collection of Dutch firearms, but also featured a tape recording which described the arms on display and gave a full history of each. At the same time, a projector showed color

slides of the arms on a screen in the center of the display. This was truly a fine example of how much thought and knowledge can be put into a dramatic presentation.

On a revolving display centered and surrounded by fine examples of the Revolutionary period, the Massachusetts Arms Collectors exhibited the earliest known named and dated New England Flintlock rifle used in the Revolutionary War, made by Tho's Tilestone in 1773.

The Antique Arms Collectors of Connecticut and the Maple Tree Gun Collectors displayed numerous artifacts of the Wells Fargo and Company. Included in the display were such items as rifles, shotguns and pistols used by Wells Fargo stations and guards, scales for weighing gold for shipment and many other interesting Wells Fargo items.



Display of Wells Fargo items.

A fine display of Civil War Conversions was shown by the New Jersey Arms Collectors Club.

The New Hampshire Arms Collectors' display consisted of N. H. made firearms both of military and sporting variety.

Last, but far from least, a fine and interesting display of rare and odd weapons, military arms from the Revolutionary period to the modern day rifle, was displayed with great taste by the Springfield Armory Museum. The effort, time and understanding that each antique gun collectors association put into setting up their indi-



Massachusetts Arms Collectors.

vidual displays could easily be seen, as each exhibit was engrossing and just as interesting as the next. Once again the Collectors Row helped to make this 97th National Rifle Association meeting the finest of modern and antique firearms ever gathered under one roof.

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(Continued from page 7)

Low Number R.I. Arsenal Springfield

I recently purchased a rebarreled, sporterized Springfield (serial #2718) marked as follows: U.S., Rock Island Arsenal, Model 1903, 2781. I have been informed that the receiver of this weapon may be crystalized and therefore unsafe to fire. If the receiver is crystalized, is there anything that can be done to render it safe for factory loads? If not, would it be safe to rebarrel the action for a less powerful load? Is there any safe load for this action if it is crystalized?

Paul G. Yost, Jr.
Memphis, Tennessee

Your low number Rock Island Arsenal Springfield is in a somewhat controversial class. These actions were case hardened as were the bolt action Kraggs. Military records show that a number of them have blown up or ruptured. The case hardening was apparently difficult to control on metal as thin as in a Springfield action, hence variation resulted. Age in itself is no factor in strength, unless the locking area has taken a lot of pounding, which in itself tends to harden metal. Being rebarreled when you got it, this could well be possible. Depite the "worry" articles concerning these actions, many authorities say they are reasonably safe with standard factory .30-06 ammunition. My findings go along with this. It "should" be ok with either 6.5x55 or 7x57 ammo as commercially loaded. Personally, I like all the safety margin possible and would suggest a high number Springfield or Mauser 98 action. Any gunsmith doing rebarreling can handle your work. Reheat treating the old action is neither satisfactory nor cost-practical.—W.S.

Braverman Answer Contested

I am afraid I must disagree with Shelley Braverman's statements in the May '68 "Panel of Experts."

Mr. Braverman stated, and I quote, "But when used as a conventional pistol the usual range is about 15 yards." He is making reference to the .30 Mauser cartridge and handgun. The .30 Mauser cartridge using an 85-gr. bullet, factory loaded, has a muzzle velocity of about 1420 fps. If Mr. Braverman means "effective range" rather than usual range he is still wrong. Many a person has shot this handgun with considerable accuracy well over his 45 feet.

This handgun and cartridge has a long military history and any weapon that only has an "effective range" of 45 feet would soon be discarded.

R. Janelli
Albertson, N.Y.

In combat, the pistol is usually a defense or guard weapon. You will note that in the training of peace officers the usual range for both timed and rapid fire practice is 15 yards. (The FBI course goes down to 7 yards!) By "effective" I meant the efficient use of the gun, not the power of the cartridge, and for most owners—not the pistol expert! Incidentally, contrary to much belief, the Military Mauser was never officially accepted by the German War Department; it remained a substitute issue. Roll a beer keg down a hill and try hitting it with the Mauser, while it is moving, from 45 feet. Let me know how you make out—one of us is due for a surprise!—S.B.

8mm x 72R Cartridges

As the recent acquirer of a fine Krieghoff Drilling, I need help. The rifle barrel is chambered for the 8mm x 72 cartridge. All the information I can find indicates that the cartridge is not available. The gun is such a fine one that I would like to keep it in original condition, even as to the caliber. Even worse, I want to use it.

Is there any source for the ammunition? If not, is there any source of brass, even in small quantities? Is there any cartridge from which this may be formed?

Cover Mendenhall
Rocky Ford, Colo.

At last report, Russell Campbell, 219 Leisure Dr., San Antonio, Texas 78201, could still produce 8 x 72R cases or loaded ammunition. Essentially, Campbell redraws .30-06 cases (in the same manner as outlined in my book "Cartridge Conversions") to form, first, 9.3 x 72R cases. Then, this case is annealed and resized to 8 x 72R. These cases are not cheap, costing well over 25¢ each, but are virtually indestructible and a small supply should last your lifetime. As for loading data, during my one experience with this caliber I used existing .32-40 Winchester data. Beyond that, you are pretty much on your own. Incidentally, if you prefer, Speer, Inc., Box 244, 1023 Snake River Ave., Lewiston, Idaho 83501, is now importing DWM unprimed cases in 9.3 x 72R caliber. By having a full-length 8 x 72R resizing die made up on special order, you could reform these new DWM cases yourself.—G.N.

OUR MAN IN WASHINGTON



By CARL WOLFF

GUN PURCHASERS TO BE REGISTERED

The Senate, in rejecting the Hruska idea of notification of the local police authority before delivery of a handgun sold in interstate commerce, opened wide the door to total outlawing of handgun sales and their transport over state lines. Even more disturbing, a national registration of all firearm purchasers also threatens.

Rejection of the Hruska compromise came on May 16th. By a vote of 45 "Nays" to 37 "Yeas" the measure was rejected, thus leaving the so-called "Dodd-Celler" bill in the Senate version of the Omnibus Crime Control and Safe Streets Act of 1967.

The Safe Streets bill originally started in the House. As passed in the House it provides federal funds for local police. Referred to the Senate, the measure went to the Judiciary Committee. There, three additional bills were attached. One was the "Dodd-Celler" anti-gun bill.

Just how the anti-gun bill got attached is a story every gun owner should know. This part of the measure was introduced in the Senate by Senator Thomas Dodd (D-Conn.), and by unanimous consent referred to the Judiciary Committee. It should have gone to the Commerce Committee. The agreement was that the legislation would be referred back to Commerce before the Senate considered the measure.

Senator Dodd, as Chairman of the Delinquency Subcommittee, held hearings on the anti-gun bill which he introduced. The measure was then reported back to the full judiciary committee. There, the total outlawing of interstate

shipment of long guns was removed and the remaining portions attached to the Safe Streets bill.

Also contained in the anti-gun bill were provisions to provide for a national registration for people buying all guns. It reads: "Each licensed importer, licensed dealer shall maintain such records of importation, production, shipment, receipt, and sale or other disposition of firearms and ammunition . . . and shall submit to the Secretary such reports and information with respect to such records and the contents thereof as he shall by regulations prescribe. . . ."

"Upon the request of any State, or possession, or any political subdivision thereof, the Secretary of the Treasury may make available to such State, or possession, or any political subdivision thereof, any information which he may obtain by reason of the provisions of this chapter with respect to the identification of persons within such State, or possession, or political subdivision thereof, who have purchased or received firearms or ammunition, together with a description of such firearms or ammunition."

Under provisions of the legislation the federal government may require fingerprints, photos, birth certificates, or just about any other information thought necessary for positive identification. Any registration, however, is highly questionable constitutionally. Previously, the Supreme Court held it unconstitutional to require the registration of communists and gamblers, and it has held that requiring the registration of so-called gangster-type weapons was

(Continued on page 71)



All of the manufacturers you know by name were at the NRA show displaying their new products — many of which were seen for the first time by dealers and the shooting public.

Guns VISITS THE

NRA SHOW

By GEORGE C. NONTE

THE PLACE, BOSTON. The time, five days, beginning with the first Saturday in April. The setting, the beautiful new 29-story Sheraton-Boston hotel which rises clean and straight above the gleaming Prudential Center complex, replacing a formerly grubby patch of Boston, Mass.

Each year about this same time the National Rifle Association holds its "Annual Members Meeting," which has long been called simply, The NRA Convention. It's a gathering where old friendships are renewed and new ones made—and even favorite enemies can be met on neutral ground. Frowns are few and far between except, perhaps, when the subject of anti-gun legislation—a common topic—is under discussion.

Those of us in the arms business are always there, and we see the same few hundred faces time after time. There are, of course, the NRA staff members who work 18-20 hours each day to make the gathering a success—and to them we owe our considerable thanks. Then, there are the industry representatives—company presidents, engineers, public relations and ad men, magazine editors, writers, and all manner of other people directly or indirectly involved in this great shooting game. All told, these regular attenders are a pretty damn fine bunch of people and I, for one, wouldn't miss this show for anything short of a free lifetime chit at my favorite watering place. Come to think of it, even that wouldn't tempt me.

But the convention isn't held just for the arms industry and the NRA staff. In fact, it's just plain work for them, spelled with a capital "W". For them this isn't a vacation at all—in fact, they need one to recuperate after the show is over. The original official title "Annual Members Meeting" tells the real story.

The whole thing is organized for the individual members, and they come from the length and breadth of our land to take part—as many, sometimes, as 10,000 to 20,000 of them. This year for example, over 18,000 attended, in spite of considerable civil disturbance that curtailed thousands of people's travel plans. It isn't just the members with a fat bank account that attend, either. One I know drove

Announcing WINNERS OF GUNS MAGAZINE NRA DRAWING



Navy Arms Model 66 (Navy Arms Co.)

Winner:

Mr. Richard Falzone, Revere, Mass.

Zoli Silver Snipe (J. L. Galef & Sons)

Winner:

Mr. Charles Deardorff, Exeter, New Hampshire

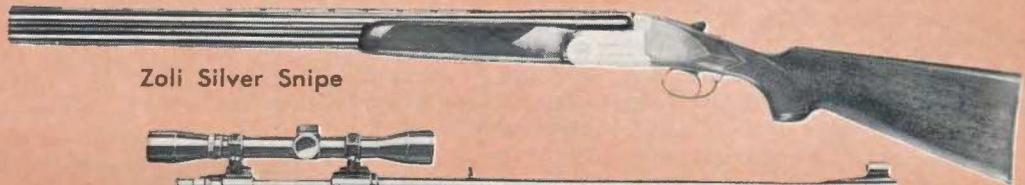
Parker-Hale Mauser Sporter (Jana International)

Winner:

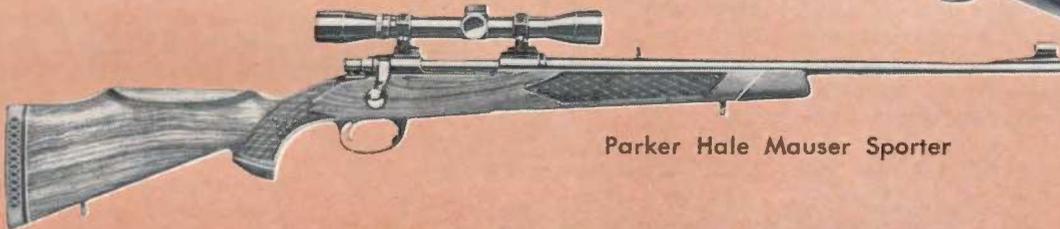
Mr. Byford McDaniel, Grosse Pointe Park, Mich.



Navy Arms Model 66



Zoli Silver Snipe



Parker Hale Mauser Sporter

Askins covers the NRA Show on following pages. ►

in and slept in his station wagon, thus eliminating hotel bills. Others come in campers, or bunk in with friends, or split rooms so they get by rather cheaply. One Texan I met made the whole trip, staying five days, on no more than \$200, and flew commercial both ways.

What is there for the member? Something for everyone, be he hunter, gunsmith, target shooter, gun collector, or dealer, or just plain Joe Blow who likes guns. Most appealing to many people is the chance to wander for the bigger part of five days through a large exhibit hall. In there you'll find all large and many small manufacturers of guns, accessories, and related items exhibiting their wares.

Each company has its own display area where its complete line is available for "lookin', feelin', and handlin'." You can spend a full day working your way down both sides of a single aisle. At any given display you'll be able (probably for the first time) to see the maker's entire line—every model he makes or sells. Best of all, there will be new models you've not even heard about. Many will be announced and shown for the first time there—and won't be on dealer's shelves back home for yet many a moon. Examples of this are the new Ithaca recoil-operated autoloading shotgun and Mannlicher-stocked Winchester Model 70 carbine introduced in Boston this year.

Each exhibitor will have his most

knowledgeable people standing by for you. Got questions—on accuracy, bullet performance, stock woods, ballistics, scopes, even hunting—you've been saving up for years? They'll be answered if you only step up and ask. This is where industry people meet you face to face and try to help you any way they can. And, they won't try to sell you a thing! In fact, you can't buy anything there if you try—no sales pitch to spoil your good time. Its against the rules.

And if there are writers or shooting personalities you've long wanted to meet, its likely you'll spot them somewhere in the exhibit hall. Believe it or not, they are there to see you just as much as you are to see them—so step

(Continued on page 70)

NRA SHOW



Charlie takes entries for our gun give-away.

By COL. CHARLES ASKINS

THIS YEAR THE NRA MEETING was held in Boston. For myself, the most interesting part of the six-day gathering of the clan is not in the committee meetings, the general gatherings, nor yet the elections, but more in the exhibit hall where all the leading manufacturers of guns and accessories display their wares.

GUNS Magazine stole the show this year in point of crowd gathering attention with a give-away program. Our magazine offered the new Parker-Hale deluxe grade .30-06 rifle (Courtesy of Jana International), the Navy Arms Co. "66" replica .22 rifle (Courtesy Navy Arms Co.), and the new Zoli Silver Snipe 12 gauge over-under shotgun (Courtesy of J.L. Galef & Sons) as prizes in a simple drawing. All the visitor had to do was to sign a card with his name and address and he was eligible for one of the prizes. (See winners names above). The GUNS booth was crowded with eager signers throughout the entire five days of the show. Fully 80 percent of all those attending took chances on the handsome guns on display.

For sensational developments the NRA bash had its moments. None probably more startling than the acquisition of the Weaver scope company by Olin Inc. This had everybody talking and was the chief topic around the Winchester-Western booth. The question most generally asked was: "When can I get a model 70 with a Weaver scope attached?" It was im-

mediately presumed by most observers that the company would offer its rifles scope-equipped hereafter. Winchester had a handsome display showing their "Buffalo Bill" commemorative Model 94, but this did not take away from the first showing of the "new" Model 70 with a Mannlicher type stock and 19" barrel. It is easily the most handsome of all the 70 line!

Ranked right along with the Winchester-Weaver news was the announcement by Daniel B. Wesson, president of D. B. Wesson, Inc. (Dan Wesson is a great grandson of the founder of Smith & Wesson) "that his company is now in the initial stages of manufacturing a new and complete line of premium quality handguns and will also import a high quality line of shoulder arms," to quote from the bulletin. This word was "leaked" out only to the guns writers present. Location of the new Wesson Co. will be at Monson, Mass.

The Franchi company, one of Italy's leading gun makers, is represented in this country by **Stoeger Arms Corp.**—the Shooter's bible people—and this year Stoeger is helping Franchi celebrate a 100th birthday. There is a new .22 auto rifle to do the proper honors. Also a new 20 gauge over-under scattergun. Along with these Stoeger has designed and has under manufacture a spittin' image replica of the Luger Parabellum auto pistol. This one is all U.S. made and fires the .22 Long Rifle.

Last year **Browning** announced a

brand new high-power auto rifle in '06 caliber. Now ready and with a single model on display at the Show, was the magnum variation. This one is chambered for the 7 mm magnum, the .300 Win. Magnum, and the .338 Magnum. The receiver has been beefed up to accept these bigger cartridges. **Federal Cartridge Co.**, the first outfit to color code all their shotshells, had a most convincing display at the NRA. These were boxes of 12, 16 and 20 gauge shells racked up precisely as you find them in a sporting goods store. Besides giving each gauge its particular hue, the Federal outfit has now also color coded the boxes. Makes it easier for the dealer and should go a long way toward keeping the gunner from dropping a 20 into a 12 gauge chamber.

The **Remington** booth got a big play on the new Model 660 rifle. Formerly dubbed the M600, it now has a non-ribbed barrel and looks better for the elimination. Remington has a new trap and skeet load. Called the "All-American" it is put up in both #7½ and #9 shot sizes. **O. F. Mossberg & Son**, North Haven, Conn., continue to improve their Model 800 high-power bolt action rifle. This gun has a lot going for it; nothing more appealing than its All-American origin and its price. First announced as a strictly sporting model it has now been varied somewhat by the introduction of a semi-bullgun barrel. The barrel is a slick one and has been tapped for scope blocks.

The Japanese over-under shotgun imported these past several years by the **Ithaca Gun Co.**, has had a 20 gauge added to the line. This Ithaca has a lot going for it. It opens easier than most of the others and while this may sound like a minor point believe me it is one of the most important details!

During the last few months Ithaca has also commenced to offer the Perazzi shotgun. This baby comes from Italy and is one of the best smoothbores made anywhere today. It is more costly than a 5-day junket to Acapulco, too!

D. P. Bushnell, the going-hell-for-leather west coast impressario, has teamed up with Wm. Heym Co., the West German rifle and shotgun manufacturer, and all D. P. Bushnell Co. outlets will offer these excellent shooting irons. Heym Co. makes drillings, over-unders and combo, rifle-shotgun arms. **L. A. Distributors**, the up and coming gun importer located in NYC, was on hand with the compelling "Shikar" high-power rifle. Along with the sporter was the equally new Lames over-under shotgun. The firm also has available a carbine of .22 cal-

iber that is a deadringer for the original M-1 carbine. But the hit of the show was their new .380 Erma pistol.

Sturm Ruger Co., had the boys around the booth three deep, everyone anxious to get his hands on the .30 carbine Ruger Blackhawk. With a barrel of 7½ inches, velocities are said to be in the 1600 fps range. Another new one was the .357 Convertible Blackhawk, this gun has an extra cylinder so that the shooter may switch cylinders and fire either the .357 Magnum or the 9 mm Luger, as he wishes. The **Charles Daly Co.**, are importers of a full line of over-under shotguns. The company now has a moderately priced side-by-side shotgun made for them in Italy; and along with this is a 12 gauge autoloader also from that country.

Let it never be said that the **Redfield Gun Sight** outfit is without courage. This year the firm has a 1,000-yd target scope with internal adjustments. All our target glasses for very long range have always utilized external mounts. These are internally micrometered and are quite satisfactory. The new Redfield is dubbed the "3200" and comes complete with mounts. It is available in 12X, 16X, 20X, and 24X. The overall length is 23¼ inches, the tube is a 1", max. internal adjustments amount to 60" and the objective lense is adjustable for parallax. Internal adjustments are graduated to ¼ minute movements.

Al Freeland, sole importer of the outstanding BSA target rifle, was on hand. I shot with Al 30 years ago at

Camp Perry. He has Freeland's Scope Stands, Inc., and besides offering the excellent BSA .22 target gun he is a redhot smallbore man himself. In '66 at Perry this youngster, now age 65, got all wound up and won the 100-yd. smallbore match with a perfect 400X39. It is a national record. The rifle was the BSA Mk III, with Eley TenX (Kynoch) ammo.

The new **Savage** over-under 12 gauge, first barrel-atop-barrel model from the company since 1941, was the center of all attention at the Savage-Stevens-Fox booth. Along with the new scattergun, called the M440, was the almost equally new Savage/Anschutz Model 54 Sporter. This rifle is truly a light hunting arm but the Anschutz company, builders of the finest .22 target rifles, have combined their famous Match 54 action into this sporter. The resulting combination makes an extraordinarily outstanding rifle. An air shotgun is the latest from the versatile **Crosman Arms Co.** This shotgun utilizes CO₂ gas and drives a shotload consisting of about 55 No. 8 pellets at about 340 fps MV. The gun is man-size and is loads of fun. It will teach the beginner how to hit a flying target at close range. A trap and targets are provided.

Birchwood-Casey Co., Eden Prairie, Minn., may sound like a company in the gunstock business but this isn't true. The firm offers a line of do-it-yourself products; stock finishes, fillers, stains, gun oils, gun blues and preservatives. A handsome rifle at the front of the booth had been fin-

ished as to the metal parts with the Birchwood-Casey Gunsmith's Magic Bluer. "It looks so good we can't get people to believe we did it," remarked **Arnold Carlson**, vice president.

Reinhart Fajen, one of the largest manufacturers of gunstocks in the country, had a new shotgun stock that caught everybody's eye. It was made up for the fellow who shoots from his right shoulder and aims with the left eye. Instead of bending the stock in the small of the grip, as is usually done, Fajen simply dished out the comb until the gunner could pass his head so far to the right as to bring the left eye into line with the barrel. It looked like hell but as Fajen explained, "It works." Lee Jurras, who heads up the **Super Vel Ctg. Corp.**, now offers high velocity softnose hollow-point bullets and loaded cartridges in .38 Spl., .357 Magnum, .44 Magnum and .45 ACP calibers. The Super Vel line features higher than standard velocities, thin jackets and open point bullets. New this year is a line of primers "not standard, and not Magnum—kind of in-between."

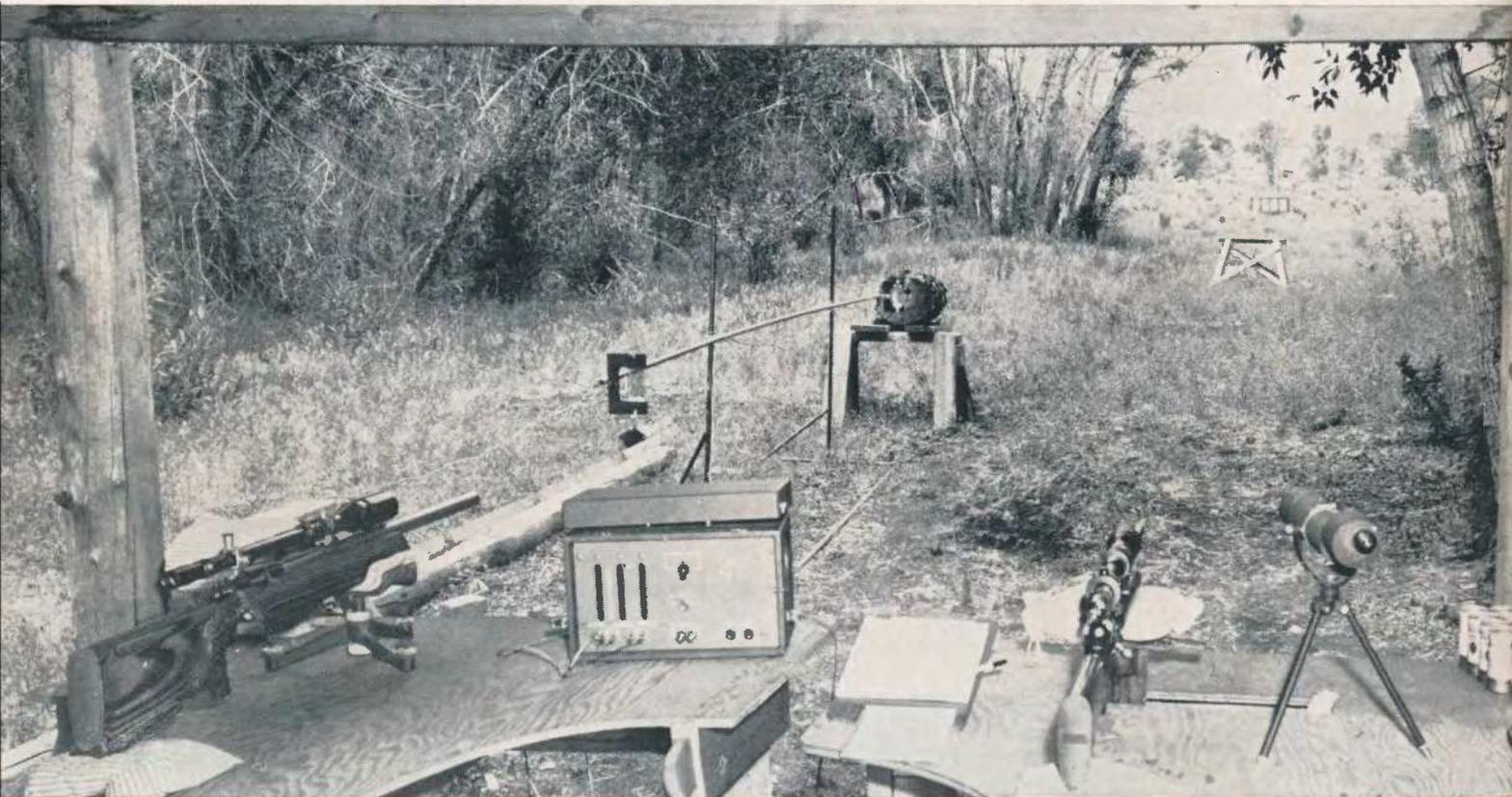
The Bausch & Lomb Co., long time manufacturers of a line of externally adjustable scopes have now added four new models, all of them internally sighted. These include a 2½X, 4X, 6X, and a variable which ranges from 2½X to 8X. There is also a bridge type mount, of new design, to go along with the new optics. Called the "Trophy" model, prices are competitive and performance is top drawer. **Harring-**

(Continued on page 48)

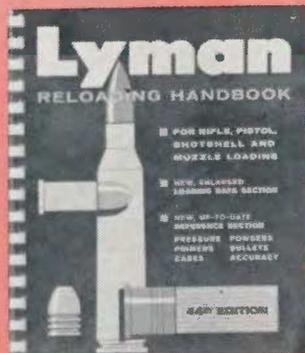
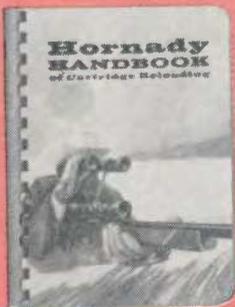


The guns and accessories manufacturers were at the show to renew old friendships, do a little business and answer questions for their public.

PRESSURE and the RELOADER



More than 15,000 rounds of reloaded ammo are tested at the author's range each year. He follows basic data from manuals, but relies on experience to get best load for his gun.



THE HANDLOADER OF TODAY, expert or novice, has little excuse for not doing a good job. For under \$15.00 he can buy all the popular handbooks and charts that have been compiled, after many years of testing and research, by the larger bullet and loading tool companies.

These handbooks and charts, used with the precisely made tools and dies put out by various companies and with the excellent components available make handloads of superior quality possible for everyone.

In addition to handloading information contained in the new and revised handbooks, some very useful charts and graphs, plus excellent slide rules or computers, have been brought out. These are especially valuable to the handloader in computing performance data. The advent of low cost but accurate chronographs completes the handloaders equipment. He can now load his own ammunition to performance and accuracy that will be equal or better than any factory loadings. With the exception of actual or absolute pressure data, he can tell as much about his loads as the factories, and this includes velocities and bullet drop at all ranges.

Actually, all a handloader really needs to know is that his loads are safe for his particular gun. It isn't necessary to know just what they are in pounds per square inch. There is enough information and instructions in the different loading manuals today, so that, using his own checks on primer loosening and other pressure indications—with emphasis on case life in number of reloads he gets from each cartridge case—he is able to be sure that his loads are under maximum pressures and not pushing maximum levels, actually well down at reasonable and sensible pressures.

Very few handloaders, even if they did have a pressure gun and barrels for it, could properly evaluate the readings they will get on the crushers used to measure the pressures. And if they could, they would know only the pressure of that one load or an average of many loads, in that particular barrel on that pressure gun, not for their own rifle.

When pressures are said to be 53,000 pounds for a load this does not mean that a box of ammunition will all be 53,000 but that the average pressure used for the loading was 53,000 pounds. All companies use the same method of working up loads to maximum. They take all the indications of pressure into

consideration, but depend for the most part on case head expansion, of a predetermined amount, to indicate maximum pressure.

Maximum pressures are just what the words imply and they should never be approached, except in working up loads or in testing. They are given in handbooks only for reference and loads well under these should be used for everyday work. *Maximum permissible* pressure is not a good phrase to use when speaking of pressures. It gives the novice an impression that he *can* go higher or that he can use one of these maximum permissible pressure loads in any gun, without trouble.

Every year I load and use around 15,000 rounds of center fire rifle ammunition, for testing, and in the field for killing varmints and game. It has been a good many years since I have blown a primer. My principal test for pressures is the rate of primer pocket expansion. I do all priming in separ-



Les Bowman

By LES BOWMAN

ate primer presses. I have several different kinds of them. All are good for proved loads and their chief value is allowing me to definitely have *feel* to seat a primer flush to the bottom of the pocket, with no crushing effect applied, which ordinary presses do not allow.

For my test work in making up loads I use a plain Lachmiller primer press. Originally, I had a scale fitted to the handle, in a manner that allowed me to weigh the primer seating pressure. When this pressure dropped below a certain minimum I would junk the case. Using this method I would also mike the case head after each firing. However, I have now had so much practice I can tell by thumb pressure required on the handle, how much the

pocket is expanding from shot to shot. Pocket expansion goes hand in hand with head expansion, so I also know when it is down to minimum seating pressure.

You may wonder, if this is my method, why I would find the various loading books and charts so useful. They are very good for reference as they indicate what has been tried and found to be okay and what velocities were obtained in the individual rifle used in the test. It does not mean that all the loads given (especially at or near maximum) will be safe or usable in my rifle or rifles, but it gives one a starting point. Actually, I have found all the lower or starting loads in all the different handbooks to be safely usable in any rifle using that cartridge.

To show how much variation there is in rifles and barrels used by those who worked up these published loadings, I will give the loading data and velocity readings from four of the top handbooks and compare them. I will use the 7 mm Remington Magnum data using 4831 powder (one of the best available for this load) and 175 grain bullets, and the maximum load given.

- Book A — 70 grains powder —
velocity — 3030 fps
- Book B — 64.9 grains powder —
velocity — 2900 fps
- Book C — 64 grains powder —
velocity — 2813 fps

These handbooks do not give pressures as the firms putting them out feel that pressure data would be of no use to the average handloader. In Hodgdon's handbook, which I will call book "D" he gives his data, with 4831 powder and the 175 grain bullet, using 63 grains for a velocity of 2869 fps, and a crusher pressure on his pressure gun of 53,000 pounds per square inch. That is enough pressure for any good rifle. If it will do the same in the handloader's gun then it is plenty. Hodgdon's starting load for this powder and the 175 grain bullet is given as 58 grains at 2732 fps and a pressure of 50,100 pounds.

I am going to do some work using the York-Cantrell pressure system that gives the pressures of the particular gun that is being used for the tests and expect to report on this later. I plan to try various guns, using 4831 powder and the 175 grain bullet.

I own five rifles in 7 mm Remington Magnum, all made by different gun companies and all having different barrels of the same length. The 70 grain loading is excessive in every one of these rifles (Continued on page 60)

INSTINCT SHOOTING COMES BACK WITH TWO
NEW NAMES—NOW IT'S CALLED...

QUICK-KILL

By COLONEL JAMES J. FORD

THE VIET CONG who bounced out of hiding to sneak a quick shot at an American infantryman near the Cambodian border will not do it again. He is dead. Charlie chose the wrong victim.

A growing number of fighting men in Viet Nam are moving out of the "victim" category because of a new army method of teaching combat shooting. It's called "Quick Kill." Initial testing is complete, and the Quick Kill method is now taught at all basic training centers.

Reports of startling results on the battlefield are already trickling back. From individuals and from troopers of units now fighting in Viet Nam come glowing reports of success.

Some months ago the Army Infantry School at Fort Benning, Georgia started developing a better way of teaching soldiers to shoot at short ranges. The war in Viet Nam is essentially a short-range war.

Led by Lt. Colonel John M. Barnes, the Fort Benning

team went back to the saga of the gunfighter of the Old West. This legendary character drew fast, looked at his man and shot from the hip. Good shotgun shooters today do essentially the same thing. These experts do not aim; they look—with both eyes. They do not track; nor do they lead. The gun becomes an extension of the eyes, just like a pointed finger. The experts emphasize "doing what comes naturally."

Barnes and his men admit there is nothing new in the principle. It is a matter of hand and eye coordination, known for a long time as "instinct shooting." What is new is the development of a method of teaching the skill to soldiers. The gunfighter did not know about "hand and eye coordination." He only knew how to shoot, fast and deadly. He probably could not teach anybody else how to do it.

Three experts in the role of civilian consultants—M.C.

(Continued on page 26)



After learning techniques (shown below) with the BB gun, shooter then uses an M-14 with sights hidden.



QUICK-SKILL

By JOEL M. VANCE

YOU'VE SEEN what the army has done with what it calls "Quick Kill;" but what, you may ask, does it all have to do with civilian shooters. To the man who shoots at moving targets the answer should be clear—the *Quick Skill* method can help you bring down more of those elusive birds, both real and clay. It's not quite the old John Wayne hipshot. If you want to get technical about it, you're using geometry and optometrics and probably a lot of other sciences you could care less about. But let's keep Quick Skill the way it is—simple.

Instinct shooting essentially is looking at an object, shooting and hitting it without aiming or pointing the gun consciously. Have you ever seen a good shotgun shooter aim or point at his birds? Ask him how he hits birds so methodically. Most will confess they don't know—they just feel right when they shoot. They *know* they're going to hit the bird. You can improve your shooting spectacularly without using the thousands of rounds of shotgun shells previously needed.

Shooters are beginning to use Quick Skill methods to improve their shotgunning—right down to and including the BB gun. The same basic reason which started the Army on the BB gun trail can apply to you. And it's far cheaper to shoot 1000 rounds of BB's than it is 1000 shotgun shells, even if you load them yourself.

Just as soldiers at Ft. Benning and other training bases start with BB guns, then graduate to the M-16, so can the shotgun shooter seeking improvement start with an inexpensive BB gun and, when he's down to hitting dimes, transfer his skills to his shotgun.

I did. I used to shoot a shotgun like a man attacked by bees or frightened by ghosts. When beset by a sudden



The Quick-Skill shooting technique works equally well with doubles.

rise of quail, I usually shot down the nearest cloud. One dismal day, I shot 17 times at fleeting doves without ruffling a feather. Obviously, it was time to do something about my shooting.

WO Bill Cearley, the administrative technician of my National Guard battery, is a competitive rifle shot, a member of the Governor's Dozen, the state's National Guard rifle team. He can thread a needle with his accurized M-14 at 600 yards. He teaches marksmanship to a variety of civilian groups in my home town of Mexico, Mo., from women to Boy Scouts. But when it comes to feathering a quail or a dove, he isn't any better than I am. The ele-

ment of panic enters. That bull at 600 yards isn't flying at what appears to be 300 miles an hour in four directions at once.

On one of our shooting trips, Cearley picked up the Army's lesson plan on "Principles of Quick Kill."

"Wonder if a guy could learn to hit doves if he could learn to hit aspirin tablets?" Bill pondered as he sat under a scrub oak tree in the vast confines of Ft. Leonard Wood. We were there qualifying with our ancient M-1 rifles. Bill, as usual, had fired expert. He stretched out on the mossy ground and thumbed through the Ft. Benning les-

(Continued on page 27)

QUICK-KILL

Jennings, J.B. Hugenberg, and G.S. Stalcup—helped the Fort Benning team develop a method of teaching. Stalcup, a retired army officer, was a member of the United States shooting team in the 1952 Winter Olympic games at Oslo, Norway. Jennings and Hugenberg also are well-known nationally in shooting circles.

The Army learned long ago that there are three basic types of shooting used by riflemen in combat, and developed teaching methods for two of them. Mass fire directed against an area rather than an individual is one. This shooting is easy to teach, and it requires no particular skill on the part of the rifleman. All he need do is aim in a general direction along with the rest of the men in his unit and squeeze off as much ammunition as he can spare. The second type of shooting involves aimed fire at an individual enemy at distances from about 150 yards up to 600 yards. To hit a target at these ranges a man needs good visibility, time, training, and a certain knack for handling a rifle.

At short ranges the third basic type comes into its own. Here the shooter must engage an enemy who appears suddenly and then is gone—frequently in the dark. To stay alive a rifleman must be fast, accurate, confident.

This truth was learned a long time ago. The army's .45 caliber pistol was first developed to fill a need for fast,

close fighting after the Philippine Insurrection at the turn of the century. The lesson was learned again on Guadalcanal in World War II.

The Fort Benning team remembered this when it developed the Quick Kill training program. Barnes emphasizes that the program teaches an ability to deliver fast, effective fire at close range only. "It is not intended to replace the sighting method," he says, "it is in addition to it." An important side effect is the confidence it gives a soldier in his ability as a marksman.

Strangely enough, training starts with a BB gun, a plain, old, lever-action BB gun—with one difference. It has no sights. The Quick Kill shooter looks *at his target*, not through sights. The BB gun has a number of advantages: it is cheap and so is the ammunition; one can see the pellet in flight, a sort of poor man's tracer; there is no recoil or muzzle blast to throw the new man off; and low velocity and short range remove some of the hazards. A BB ricochets, however, and instructors insist that shooters, coaches and bystanders wear plastic protective glasses. A BB could blind a man.

The soldier is first taught the proper position. He must lean forward slightly, into the weapon. He keeps his feet comfortably apart, his body balanced, his head up. He locks the weapon into the shoulder pocket with the stock "welded" to his jaw. Both of his eyes are open, looking *over*, not *down* the barrel. His leading hand is extended far down the barrel; a right handed shooter uses his left hand and vice versa. This hand carries the weapon to the target, making it an extension of the shooter's eyes.

If the soldier learns his position well, his rifle will hit the point on which his eyes are focused. More than half of all who try are amazed when they score a hit the first time.

A hollow metal ball about four inches in diameter is the first target. The instructor throws it in the air about ten feet above the shooter's head. The BB gun is already raised at an angle of about 75 degrees. Looking over the barrel, eyes locked on the top edge of the ball, the shooter squeezes the trigger. Within a few minutes he is hitting eight shots out of ten.

Most of the instructors have a line of patter that literally talks their pupils into hitting. "Keep your head up. Look at the top of your target. Watch the top edge. If you're going to miss, miss *over* the top. Look over the barrel. Good position! Move your feet a little farther apart. Look at the top edge of your target."

All this is stated calmly, continuously, in a conversational tone of voice. The instructor's object is to sell confidence, and he is a convincing salesman. The pupil may not consciously hear every word, but the idea sinks in. The shooter is encouraged to keep looking over the barrel, not seeing it, with his eyes locked on top of the target.

As soon as the pupil is hitting the thrown ball eight out of ten times he graduates to a smaller target, usually a disk about three inches in diameter. Frequently, he can take to the smaller target in ten minutes or less. Experts can shoot a wad of paper stuck in the center of a small washer out of the hole every time.

This type of shooting requires high concentration and is tiring. Instead of the time-honored army ten-minute break every hour, Quick Kill trainees take a two or three minute break every ten minutes. The instructor uses his time to answer questions and explain the "why" of the system. One instructor says, "The more you know about why the system works, the more you will (Continued on page 62)



At Fort Ord, top officers tried the Quick Kill method and found the new shooting technique to be "amazing."

QUICK-SKILL



son plan for improved shooting.

"Why don't we teach each other Quick Skill," I suggested, "Then see if our shooting improves?"

A review of the principles of Quick Skill is basic before beginning the training. You can point to objects at which you are looking. Your eye guides your muscles. In Quick Skill, you substitute a gun for your finger. First, you must find your master eye. Everyone has one dominant eye and it isn't necessarily the same as his dominant hand. Bill's left eye is dominant, though he is right handed. I'm right handed and right eyed. The only difference is that Bill must bring his head over slightly more than I do so his left eye looks over the barrel. The easiest way to find your master eye is to point at something with your master hand. Close the eye corresponding to your master hand. If you remain on target, that's your master eye. If not, the other eye is the one.

Instinct shooting is best learned by two people at a time with one acting as coach, one as instructor. Since the shotgunner is mainly interested in aerial targets, start with them. We followed the Army idea and got some aluminum discs of 3½ inches and 2½ inches. I also got a couple of softball-

size plastic balls. They're cheap and last forever.

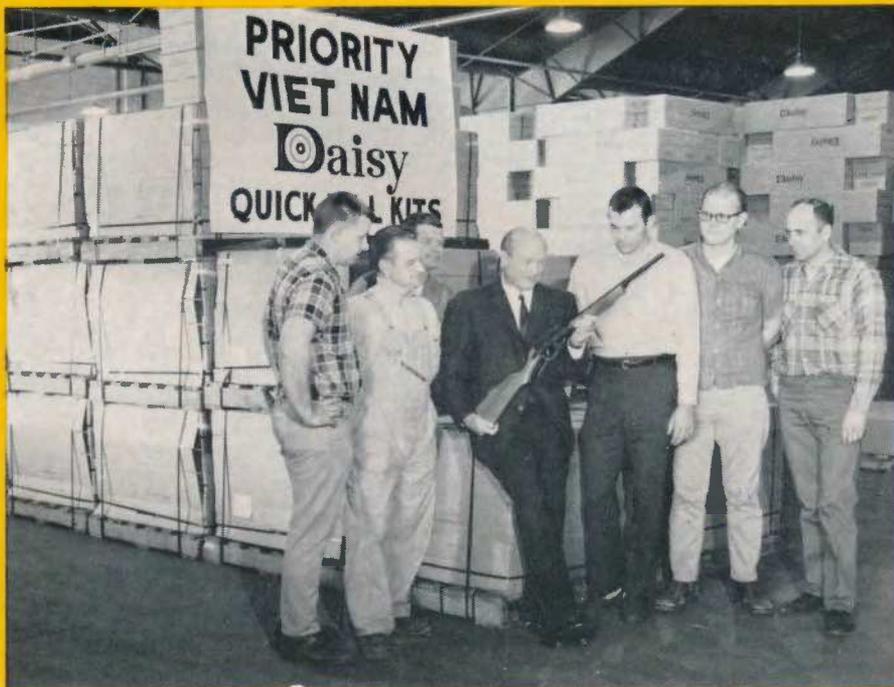
One caution note now and forever—always wear the safety glasses which are included with the Daisy kit. Cearley uses case-hardened shooting glasses which are just as good. BB's will ricochet from any hard surface and they can put your eye out. I've been pinked in the ear (on a cold day) and the cheek, so I know it can be dangerous.

The proper position for instinct shooting is with the knees slightly flexed, shooter leaning slightly into the gun, head erect, both eyes open and looking over weapon (not down the barrel) with gun locked into the shoulder pocket and the stock welded to the jaw and the muzzle elevated to about 75 degrees.

Your coach should be just behind you so he can tell what you're doing. Your line of sight is 2 to 3 inches over the barrel and parallel to it. If you're conscious of the barrel at all, then you're not concentrating on the target.

Now the target goes up. The shooter sees the disc against the sky, round as a quail's body. Listen carefully—if you start right, you can't help but get better. The key to Quick Skill is—LOOK.

Look at the top edge of the target. The key word (*Continued on page 63*)



The Quick Kill training kits are being rushed to army camps around the world and the similar Quick Skill kits should now be at your sport shop.





Tilting at Windmills

*An unbiased report from a
member of the legal profession puts
gun laws in proper perspective*

By E. B. MANN

TILTING AT WINDMILLS is passé.

Time was when Don Quixote won indulgent laughter and affection, even admiration, with his hopeless charges at impregnable landmarks. Today, we who do likewise earn little but raucous laughter.

"The Right To Bear Arms" is such a windmill.

True, the laughter is unjust, proof of ignorance on the part of the mockers. True, the windmill is a monstrosity, an insult to our intelligence, a thing to be destroyed. But it needs heavier artillery than we can presently bring against it; and gun people can ill afford, in today's already adverse climate, to seem ridiculous.

Nobody believes more strongly than I do that the Second Amendment means exactly what it says—the right to keep and bear arms. Nobody knew better than Eisenhower and his generals that allied forces must invade Fortress Europe. But there are times when it is better to hammer away at attainable objectives and leave enemy Gibraltors until they weaken or until our strength is greater.

Today, court decisions denying our interpretation of the Second Amendment constitute a Gibraltar—a windmill which, if we tilt against now, will up-end us and make us seem ludicrous. Let's leave it for later, when better lawyers and better historians have presented better arguments to better judges, when a public, presently deceived, is open to reason. Today, let's set our sights on targets we can hit effectively, as allied bombers sought out and hit the ball bearing plants, the oil supplies, the weak spots of Fortress Europe.

There are those who say that we who write and publish

pro-gun arguments in gun magazines are also "tilting at windmills"—knocking down resistance that does not exist in the audiences we reach. It is, we are told, like preaching Baptist doctrine at a Baptist prayer meeting: all who hear us are already converted!

It makes sense, at first hearing. We who read gun magazines are already "converted." But we are by no means all perfectly informed! We are by no means all armed and ammunitioned to debate and defeat the propagandizing anti-gun preachers with their professionally prepared sermons!

And because rank-and-file pro-gun people are *not* adequately armed and ammunitioned to win the daily skirmishes provoked by the floods of anti-gun propaganda, we think it is the duty of this magazine and others in our field not to tilt at windmills but to point out targets we can hit effectively and then provide you with the facts with which those targets can be hit.

It is not often that we get such data from such neutral, unemotional, yet impressively qualified sources as the professional journals. The legal profession in particular has been notably vulnerable to anti-gun arguments. Too many lawyers, shocked by the crimes they see, convinced by nationally publicized propaganda that "guns make crime," have urged laws against guns—not bothering to discover what laws already exist or how effective they are, or are not. So it is with real pleasure that we quote, from *Western Reserve Law Review*, the following excerpts from a serious, scholarly research-appraisal of the actual legal pro and con of firearms legislation. We think it will provide you with cool, telling, well-documented ammunition against the Big Lie tactics with which we are constantly challenged. The report is simply titled "Firearms Regulations," and is bylined "James N. Brown III."

"SINCE THE Assassination of President Kennedy in 1963, there has been much public pressure on legislative bodies for increased firearms regulation. While there appears to be a definite need for more effective (regulation of) the sale and use of firearms, it is submitted that very few persons are acquainted with even existing federal regulations, let alone those of their own state and municipality. Some feel that the registration of firearms will halt crime or will prevent accidents arising from the improper use of firearms. It is the purpose of this Note to discuss existing regulations of firearms by the federal government, states, and certain municipalities and to discuss the different forms of firearms regulations, the theories behind them, and, to the extent possible, their effectiveness.

I. THE NATURE OF THE PROBLEM

"There are two motivating factors in the drive for increased firearms regulation: the prevention of crime and the prevention of accidents. . . . Many believe, however, that accidents with firearms can be prevented by education. The number of accidents involving firearms, although declining, is substantial; nevertheless, it is far below drownings, railroad mishaps, and accidents involving motor vehicles, falls, and fires.¹ Also, the number of homicides and suicides involving firearms has decreased.² The issue in any discussion of this subject is whether a meaningful program of regulation can effectively control the legitimate use of firearms while ensuring to citizens the unhampered use of firearms.

"Why is the unhampered use of firearms important? There are a number of different reasons. For many, hunt-

ing and target shooting are relaxing and wholesome recreations; for others, gun collecting is just as rewarding, although their relics are never fired. But for other gun owners, the possession of a firearm is desirable simply because of the security resulting from having a firearm around the house. Furthermore, the rifle over the fireplace is a traditional expression of American independence. It is a symbol of freedom, for it is well known that an oppressive government quickly disarms the people.

1. Despite a 50% increase in the number of hunters and shooters since 1950, the number of hunting and shooting accidents has decreased 13%.
2. From 1940 to 1960 the percentage of homicides involving firearms decreased 25.7%, while the percentage of suicides involving firearms decreased 9% over the same period.

II. THE FEDERAL LEVEL

A. The Second Amendment

“... Examination of judicial interpretation of this provision will reveal that the so-called ‘constitutional right to bear arms’ is extremely limited. As presently interpreted, the Second Amendment does not restrict state action; it operates only against the federal government. . . . The Amendment places no limitation upon the exercise of state police power. Moreover, when Congress entered the field of firearms regulation, the ‘constitutional right to bear arms’ was further narrowed by the U. S. Supreme Court. In upholding the National Firearms Act, the Court held that the right to keep and bear arms does not apply to private citizens, but that the intention of the framers of the Amendment was to allow the states to keep militias, this

being the only right guaranteed by the Second Amendment. Thus, as far as the private citizen is concerned, the Second Amendment is of doubtful value in insuring his privilege to own firearms for his personal use.

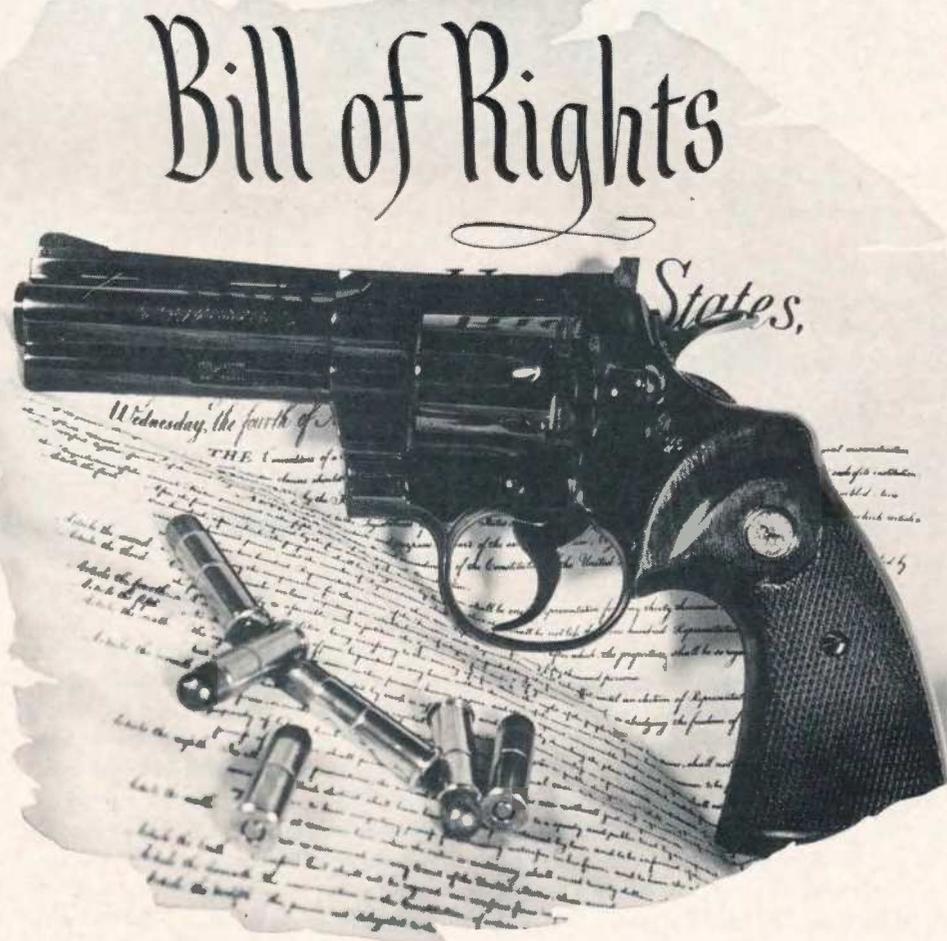
B. Existing Federal Regulations

“Federal regulation of firearms is covered by the National Firearms Act of 1934, the Federal Firearms Act of 1938, and various postal regulations. . .

“(1) The National Firearms Act of 1934 . . . is a registration and tax statute designed to curtail certain ‘gangster type’ weapons . . . (all fully automatic firearms, rifles with barrels shorter than 16”, rifles and shotguns less than 26” overall, pistols with shoulder stocks and barrels less than 16”, combination rifle-shotguns with barrels shorter than 12”, and all mufflers and silencers). Firearms which are not capable of firing fixed ammunition are exempted.

“The sportsman or person who wishes to own a firearm for defense is rarely affected by (this) Act. There is little need for the law-abiding citizen to use a machine gun, a sawed-off shotgun, or a weapon with a silencer. There has been a demonstrable popular interest in shot pistols (i.e., conventional pistols or revolvers altered to fire small shot rather than lead bullets, suitable only for rats, snakes, and other small vermin), and the transfer tax on such weapons has been reduced from \$200 to \$5.

“(2) The Federal Firearms Act of 1938 . . . prohibits interstate shipment of firearms or ammunition to fugitives from justice, convicted felons, persons under indictment, and other persons not authorized to own such firearms under local law. Manufacturers . . . (and) dealers . . . must keep records of each firearm received or shipped . . . (and) is required to receive evi- (Continued on page 54)





Charles Askins

By CHARLES ASKINS

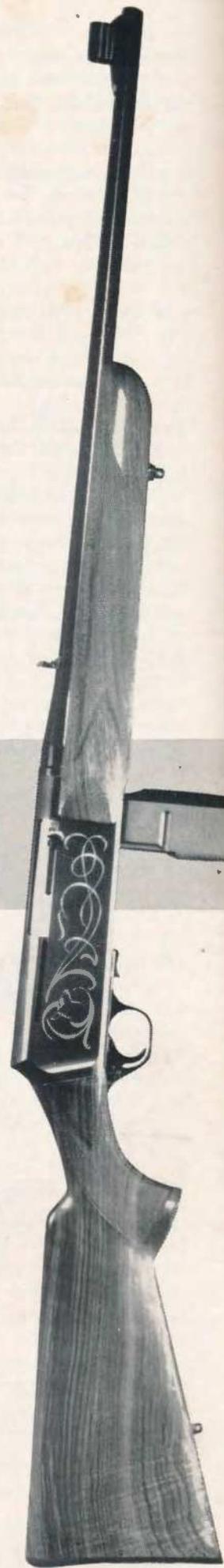
AUTOMATIC RIFLES play an increasingly important role in the game fields. Since World War II manufacturers have turned with mounting emphasis to the high-powered rifle that functions itself. We had ten million men under arms during the 1939-45 crisis and all of them, virtually, were handlers of either the M-1 rifle or the M-1 carbine. It was for many their first contact with firearms and the selfloaders made a lasting impression.

Since then we have fought a second war and are involved in a third. During these last scuffles we have managed to acquaint almost a million more youngsters with the semi-auto.

tion and the breechbolt delayed long enough to kick out the empty, pick up and chamber a fresh round. This was good and reliable and I never saw an owner who did not like the Remington.

The Model 8 and 81 were chambered for four cartridges, all developed especially for this action. These were the .25, the .30, the .32 and the .35 Remington. The first three were rimless versions of the .25-35, the .30-30 and the .32 Special. The .35 Remington had no counterpart; it was the best of the lot. These days you can no longer get the .25 Remington cartridge but the others are still offered regularly.

At various times I have owned all four calibers, first in the Model 8 and more lately the .35 caliber in the Model 81. An eight pound rifle, the 81 is club-like and awkward, not so much because of its weight which is moderate but because of the huge barrel. The business end is a barrel within a barrel and complete with a sizeable operating spring. This gives a decidedly left-handed balance. Accuracy is sketchy and I found that you dared not lay the barrel over log, limb, or rock when you shot. It vibrated like a flower-child's heart and any kind of a rest was con-



The Autoloading Rifle

These experiences have a great deal of bearing on the subsequent selection of a sporting rifle.

There is a highly vocal minority in our midst—gun writers—who never wax very eloquent on the virtues of the selfloading shooting iron. These gentry are hipped on the score of accuracy, and none of the auto-loaders will shoot up with those rifles that close the breech with a turning bolt. But with or without the support of the gun-writing hacks the rifle of the future is going to function itself.

The first of the modern autoloading rifles was the work of John Browning. This rifle was patented in Oct. 1900, and rights to manufacture acquired by Remington in 1906. The latter outfit made and sold this rifle until 1950, first as the Model 8 and (after 1936 with some modifications) as the Model 81. This rifle operated on the long recoil principle. That is to say the barrel and the breechbolt were locked together during recoil and toward the end of the movement the two were cammed apart. The operating spring then returned the barrel-tube to its forward posi-

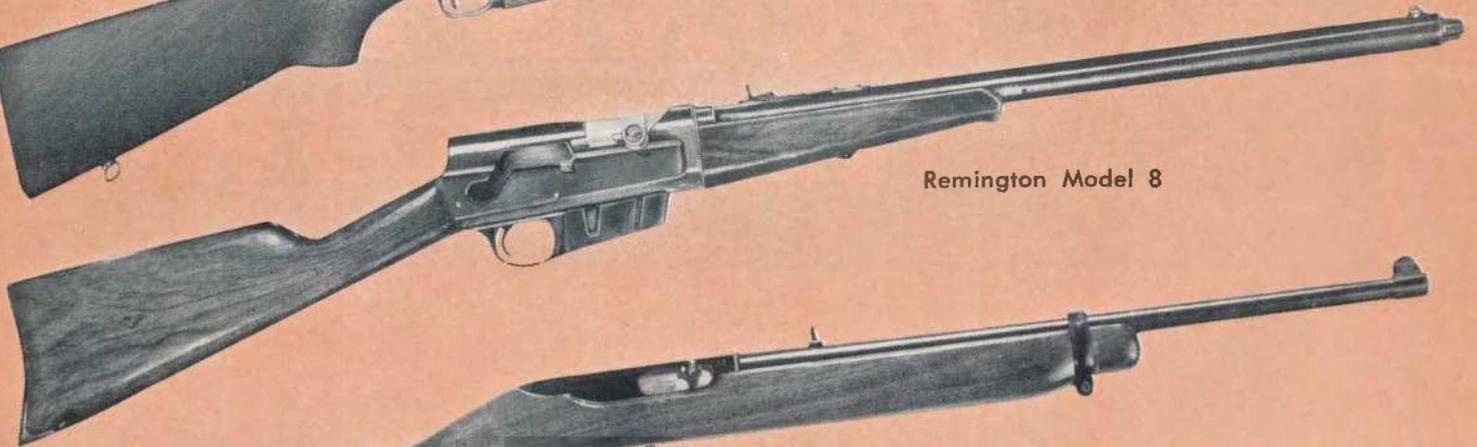
ductive to some pretty wide hits. Essentially a 100-yard gun, at that range it was a whale of a good game killer and I liked it despite its several obvious shortcomings.

The next of the auto rifles was the Winchester 1905 Self-Loading model. It was patterned after the Winchester .22 Model 1903, an automatic whipped up by Thomas C. Johnson, an inventor with the company for 50 years. This rifle was a straight blowback; it depended on weight and inertia to hold the breechblock closed until the bullet got out of the muzzle and pressures around the breech had fallen off somewhat. George Watrous, one of the better Winchester historians, in writing about the Model 1905 explains it this way: "The 1905 was an automatic with a balanced breechbolt recoil operated mechanism. The design and weight of the breech bolt is so proportioned that there is no loss of velocity and energy of the bullet. In order to obtain the nicety of balance required to operate this type of mechanism it was necessary for Winchester to develop a new cartridge for this model."

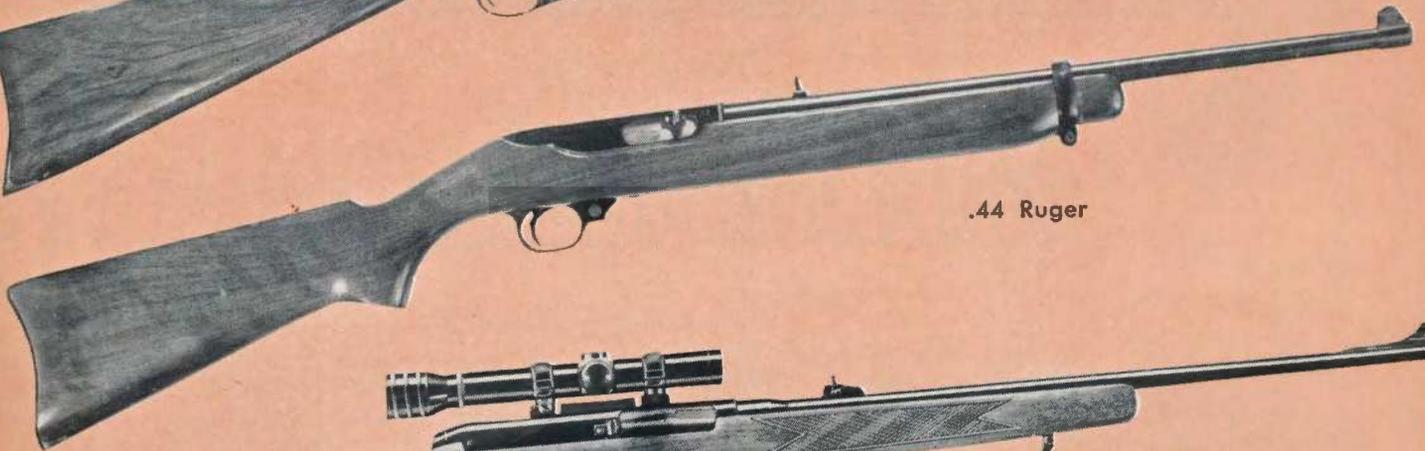
This was precisely what Tom Johnson did.



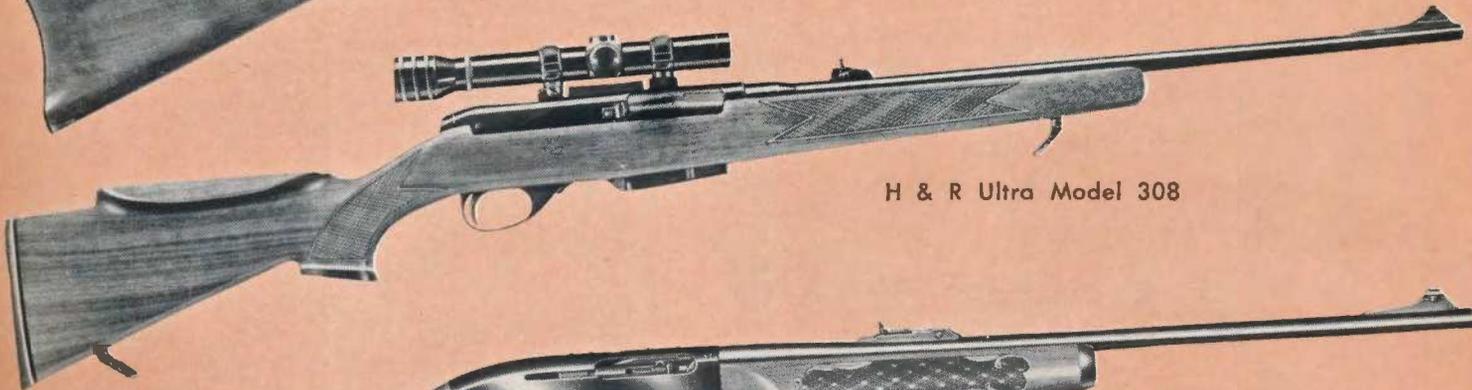
.351 Winchester



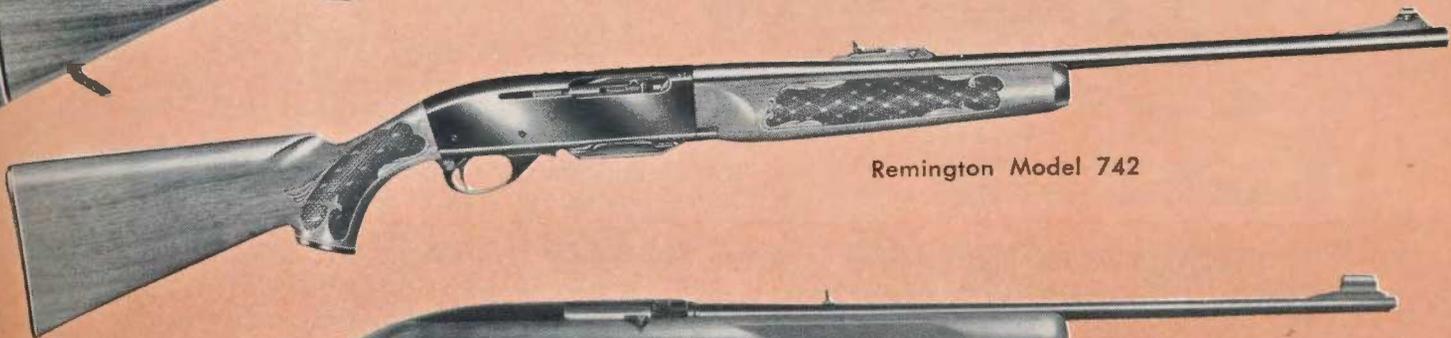
Remington Model 8



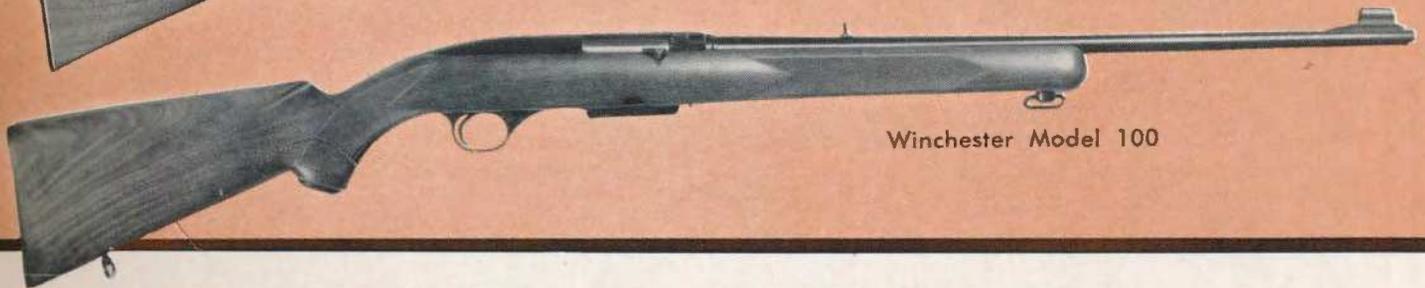
.44 Ruger



H & R Ultra Model 308



Remington Model 742



Winchester Model 100

He had a .32 Self-Loading round and a .35 SL. Both were semi-rimmed straight-sided cartridges of decidedly inadequate power. The .32 was about on a par with the .32-20 and the .35 was a match for the .38-40. In 1907 another caliber was added, the .351 Self-Loading; a considerably more powerful round. The '05 was beefed up to handle this, and called the Model 1907. By 1910 the fourth in the series was announced. This was the .401 SL. Again the '07 was re-designed for this new round, and called the Model 1910. All are gone by the board today save the .351.

The .351 was a favorite of the U.S. Border Patrol during the mid-30's, and officers who bought the guns from their own pocket promptly threw away the dinky 5-shot box magazine in favor of a 10-shot clip. If they could have had a 15-shot or even a 20-shot it would have been popular. I was in the Border Patrol during those days and owned a whole series of these choppers. The Patrol, from 1924 to '34, in the El Paso district alone had a gunfight on the average of once every 17 days for the entire decade and the .351

(Continued on page 64)



GUNS and the LAW

SOME THOUGHTS ON RIOTS

EDITOR'S NOTE

After a long silence, we received a letter from our police editor, Rex Applegate. Although it was addressed to the editorial offices, we think it has some interest to our police readers.

Dear Readers:

AS YOU HAVE NOTICED, there have been no "Guns and the Law" articles in the past issues of GUNS Magazine, and for a very good reason. I have been extremely busy working on a new book on police weaponry and riot control, which should be published soon.

While working on several new chapters on guerrilla warfare tactics and street fighting techniques I kept bumping into some facts that have a relation to both the current surge of anti-gun legislation and some of the problems law enforcement officers will meet if the summer is, as some predict, hot and long. As you read what follows, I think you will see how these two problems fit into my subject.

Some years ago, when I was visiting with W.H.B. Smith, I went to the New York City Police Headquarters with him. After a lot of red tape and consultation, we were permitted into that "Holy of Holies," the police armory. The sergeant in charge showed us several large barrels, full of confiscated, home-made, zip guns. These guns had been taken away from the various members of the New York youth gangs. There must have been several hundred in this par-

ticular collection, that were awaiting destruction by the police department. Most of them were handgun types, very crude, but capable of firing small pistol ammunition. The sergeant stated that they accumulated similar quantities every month, or so. At that time, Walter Smith and I discussed, at some length, the futility of laws such as the Sullivan Act (under which New York City is still operating) and generally kicked around the fact that, if people wanted to make firearms, they could do so from common ordinary articles and material and it would not be very difficult.

During World War II, the Liberator, a single shot, .45 caliber pistol was manufactured for the OSS, to be dropped into Axis occupied countries. Another interesting single shot, shotgun, called a "guerrilla" gun was made in quantity, for shipment to the Far East and the Philippines, via submarine. Both of these guns were constructed of very strong materials and neither cost over \$2.00 to make, but they were reliable and ideally adaptable for their one-shot, throwaway purpose. The basic idea being that you ambushed a Jap or German and thereby secured a better weapon. If it was seized or lost, the low cost took away some of the pain.

Recently, when working on the booby trap and molotov cocktail section of the new police book, I have been going over several of the manuals on guerrilla warfare that are now being circulated among, and by, certain militant extremist groups in the ghetto areas in the east. They include some interesting descriptive material on backyard manufacture of arms—gun laws notwithstanding. Also included are some specific and simple, basic instructions, complete with drawings, on such nice subjects as blowing bridges, cutting railway rails, improvising explosive devices, manufacture of molotov cocktails, arson type devices, and other "how-to-do-it" techniques that are dear to the heart of the guerrilla warfare specialist.

Two of the manuals in question had been received, recently, from police friends and were seized in raids con-



By
COL. REX APLEGATE

AND GUN LAWS

ducted on headquarters of extremist groups during the past few months. They are of communist origin, supplied from Red Chinese or Cuban sources. They are similar, but in more detail than that by Che Guevara, who wrote "La Guerra de Guerrillas," which, thanks to Castro, has been widely circulated all through Latin America.

Using one of the "how-to-do-it" sections of the RAM (Revolutionary Action Movement) manual as a sort of buyer's guide, I drove out from my lodge to the nearest hardware store. For \$10.60, I purchased all the material necessary to make three 12-gauge single shot shotguns; one .32 Long, single shot pistol; one 12 gauge booby trap device; and one black powder bomb. Carefully following the instructions, I was able to construct all of these guns in a three hour period using only basic tools.

I think this pretty well points up the naive nature of the approach of many of our legislators who do not want to look at the problem in the big urban centers objectively and realistically, as they are too concerned about loss of the minority votes that are so necessary to keep them in Washington. I am also a little surprised at Senator Dodd. He has had enough of a background in law enforcement and the military to have given the facet of homemade firearms a little more attention and consideration in preparation of his proposed bill.

In any event, the sound and fury of the battle over gun registration is going to continue and it is going to be interesting to see how it actually develops, particularly in view of the recent report on the ominous future, by the Presidential Commission on Civil Disorders. At the present time, the politicians are wringing their hands and complaining about the fact that people, everywhere, are buying guns for home defense, and that in some cases, police departments are even giving instruction to housewives, store keepers and other civilians in the safe use of firearms for defense purposes.

Police intelligence indicates that all of the "store bought" guns necessary for guerrilla warfare are already in hidden caches, and/or in the hands of those who state publicly that they are going to use them at some given date in the future for purposes of violent insurrection. Most law enforcement officers also realize that all of the restrictive gun laws the politicians so loudly proclaim as necessary will do nothing to alleviate the situation the police are facing. Thinking police officials also realize that any future gun registration, regardless of how stringent, will have little effect on the current crime wave and the threat of armed rebellion some are promising will come.

The breakdown in respect for law and order that is so highly publicized and concerning which the politicians in Washington have now finally begun beating the drums, has really little to do with firearms. (Continued on page 72)



An assortment of various street-gang weapons taken from youths in New York City.

CHECKING SHOTGUN patterns is a laborious business. It is easy to see why a shooter would grab at just about any excuse to either make it easier or avoid it altogether—like Mr. Carl W. Rady, writing in the March issue of GUNS. Mr. Rady has rationalized himself out of firing any test patterns whatever with his shotguns, and more power to him.

I'm sure he's very happy not having to face all those unwieldy great papers perforated with hundreds of lousy little pellet-holes, each one of which must be counted and marked so it won't be counted again. (There are also steel pattern-plates which you smear with some kind of receptive goop, but with this method the patterns must be counted on the spot, and somehow it's always cold and nasty when I'm testing my shotgun, so I prefer to do the tedious part of the job indoors.)

I wish I were as good at rationalizing as Mr. Rady, and could persuade myself, as he does, that this chore is totally unnecessary since U.S. firearms manufacturers turn out nothing but perfect shotgun barrels and U.S. ammunition makers sell nothing but perfect shells. However, although I greatly respect the industry, I think the members thereof would be the first to admit that the perfect barrel and shotgun shell have yet to be achieved. In the meantime we have excellent, safe guns, and fine, reliable ammunition; but absolutely perfect and predictable they are not.

Some years ago I checked out a very well-known brand of U.S. pumpgun with interchangeable barrels. I used a number of different loads. The results were revealing. One barrel marked 'Improved Cylinder,' for instance, would shoot patterns ranging from weak cylinder to strong modified depending on the shells used. Another barrel marked 'Full' gave fine, tight full-choke patterns with one brand of high-based #4's, but threw thin modified patterns with another brand. Obviously, the man who picks the wrong combination, for either the field or the duck pass, would have unsatisfactory shooting.

Not only the pattern, but the point of impact varies gun to gun. Single-barreled shotguns can have bent barrels. Muzzle devices generally tend to shoot a bit low due to the optical effect of the blob on the end of the barrel; if you're not aware of this, you could wind up undershooting a lot of rising birds. And quite recently I checked out a couple of imported doubles, brand-

new, that looked like very good bargains; however, both crossfired so badly that the left barrel shot two or three feet to the right of the right one at forty yards. If I'd bought either of those guns without patterning them, I'd have had a lot of mysterious misses to explain.

Furthermore, even with the best-shooting guns and loads, gunning problems arise that can be solved only at the patterning board. Take my own case, for example: a couple of years ago I developed a neck condition that made me sensitive to heavy recoil. My problem was to find something to shoot ducks with that would treat my tender spinal column with respect. I'd been a 20-gauge fancier for quite a while, but for waterfowl had always used the long 3" Magnum shell throwing 1¼ oz. of #4 shot. This is a good load that gives killing patterns just about as far as I can hit anything, and handles geese as well as ducks, but in my light Browning Superposed it has a respectable kick.

I tried the short 1⅓ oz. magnum loads, and found that even they were too rough for me. Obviously, I had to go to one ounce, which seemed pretty light. The question was what shot size to use in this reduced loading. A few

test patterns gave the answer. One-ounce loads of #4 shot patterned very sparsely from both the modified and full-choke barrels—that is, they patterned just modified and full, as marked, and with a mere ounce of shot, that wasn't enough.

What I needed to make the 1 oz. loading suitable for ducks at customary ranges was a patterning miracle. With #6 shot, I got it. I won't tell you how tightly those one-ounce sixes shoot in both barrels of that little Browning twenty because you won't believe it. I'll merely say that at one point in the test I had to cut open a couple of shells and actually count the pellets, because when I used the pellets-per-ounce figure out of one of my reference books I came up with pattern figures exceeding one hundred percent. It turned out that this particular manufacturer was either using light shot or heavy ounces; his shells held more #6 pellets than the book called for. But even the corrected pattern percentages were the highest I'd ever got.

Obviously, this was the load to use, but obviously I was going to have to hold very close to use it, since the pattern spread was so small. The hunting season confirmed the conclusions formed at the patterning board. Sloppy

TEST PATTERNS



EDITOR'S NOTE

Donald Hamilton, creator of *Matt Helm*, the popular private eye of novels and movies, is one of the few novelists whose knowledge of guns is reflected in his error-free writing.



Author checks a test pattern shot on his 20-yard target.

ARE NECESSARY!

By DONALD HAMILTON

shooting turned out to be a total waste of time and ammunition, but on the days I was holding and swinging reasonably well, those light, tight little field loads of sixes seemed to kill ducks almost as far as the neck-breaking 3" magnum fours I'd been using previously. And I was back in the duck-hunting business despite my ailment.

Again, a year or so later, I wanted to try the .410 events at skeet, using .410 inserts in my 20-gauge skeet gun, another Browning O/U. It didn't work too well. I'm not the world's best shot-gunner, and half an ounce isn't very **much shot, but even so a lot of targets** sailed away undamaged that I felt should have broken.

The patterning board gave the answer: this open-bored gun, which patterns beautifully with the 20-gauge loads for which it was designed, just

wasn't giving adequate pellet concentrations with the tiny .410 shells. However, when I stuck the same conversion tubes into the Browning previously mentioned (the one choked modified and full that I'd used for ducks) I got nice, even 45-50% patterns. With a mere half-ounce of shot, this was not too tight, just tight enough to break the targets consistently if I was on them. (How to manage that, unfortunately, the board wouldn't say.)

After these experiences, I simply can't persuade myself that patterning is unnecessary. In fact, I'd no more go **on an important hunting trip with a** shotgun-and-shell combination I hadn't checked out than with a rifle-and-cartridge combination I hadn't sighted in. However, this doesn't mean that I perform all the gymnastics Mr. Rady describes and tries to ridicule. If I can't

avoid working, I can at least make the work as easy as possible.

The standard method of patterning a shotgun is to fasten some kind of a paper more than 30" square to some kind of a frame, hike back 40 yards, and blast away, once, at the center of the target. After this comes another forty-yard hike to replace that big, flapping piece of paper with another—this to be done five to ten times, so the experts say, for every load to be tested.

Then the shot holes must be counted. But even getting the targets properly set up and fired upon involves, as Mr. **Rady points out, a lot of work.** The mileage alone is impressive, not to mention the frustration of handling the outside paper on a windy day—one point in favor of the steel pattern plate, which at least won't blow away the minute your (Continued on page 58)

THE RARE S&W's

Model No. 3

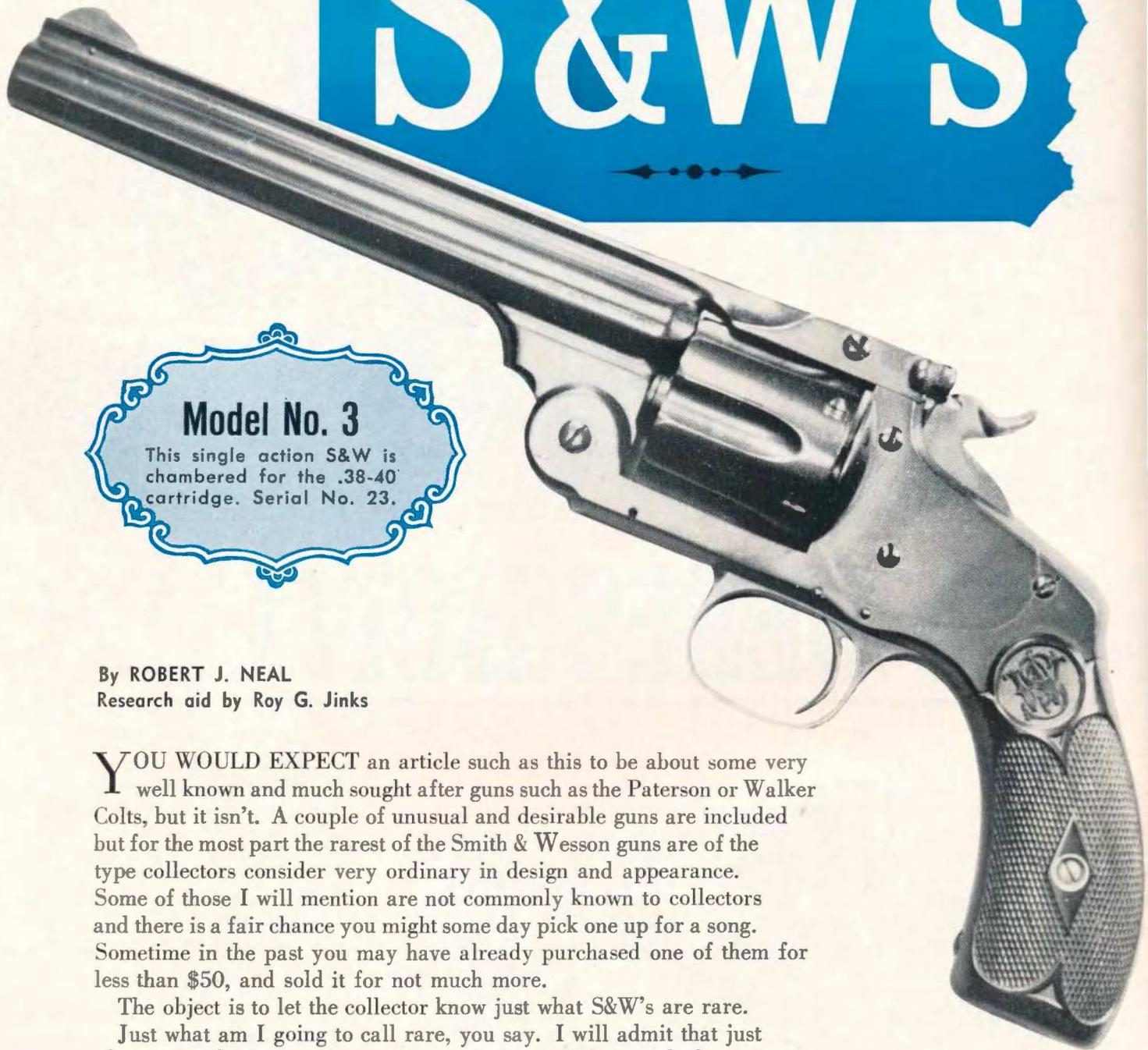
This single action S&W is chambered for the .38-40 cartridge. Serial No. 23.

By ROBERT J. NEAL
Research aid by Roy G. Jinks

YOU WOULD EXPECT an article such as this to be about some very well known and much sought after guns such as the Paterson or Walker Colts, but it isn't. A couple of unusual and desirable guns are included but for the most part the rarest of the Smith & Wesson guns are of the type collectors consider very ordinary in design and appearance. Some of those I will mention are not commonly known to collectors and there is a fair chance you might some day pick one up for a song. Sometime in the past you may have already purchased one of them for less than \$50, and sold it for not much more.

The object is to let the collector know just what S&W's are rare.

Just what am I going to call rare, you say. I will admit that just where to apply the term is a matter of opinion but I have picked a total production of one thousand or less in this case. All guns will be ones made before 1945 so I would say this would make most of these very hard to find. If they were as well known as the Walker Colts and as much sought after it would also drive their prices well above \$1,000. This is not the case with most of them however and I have known some to have been purchased in very recent times for far less than \$100 at gun



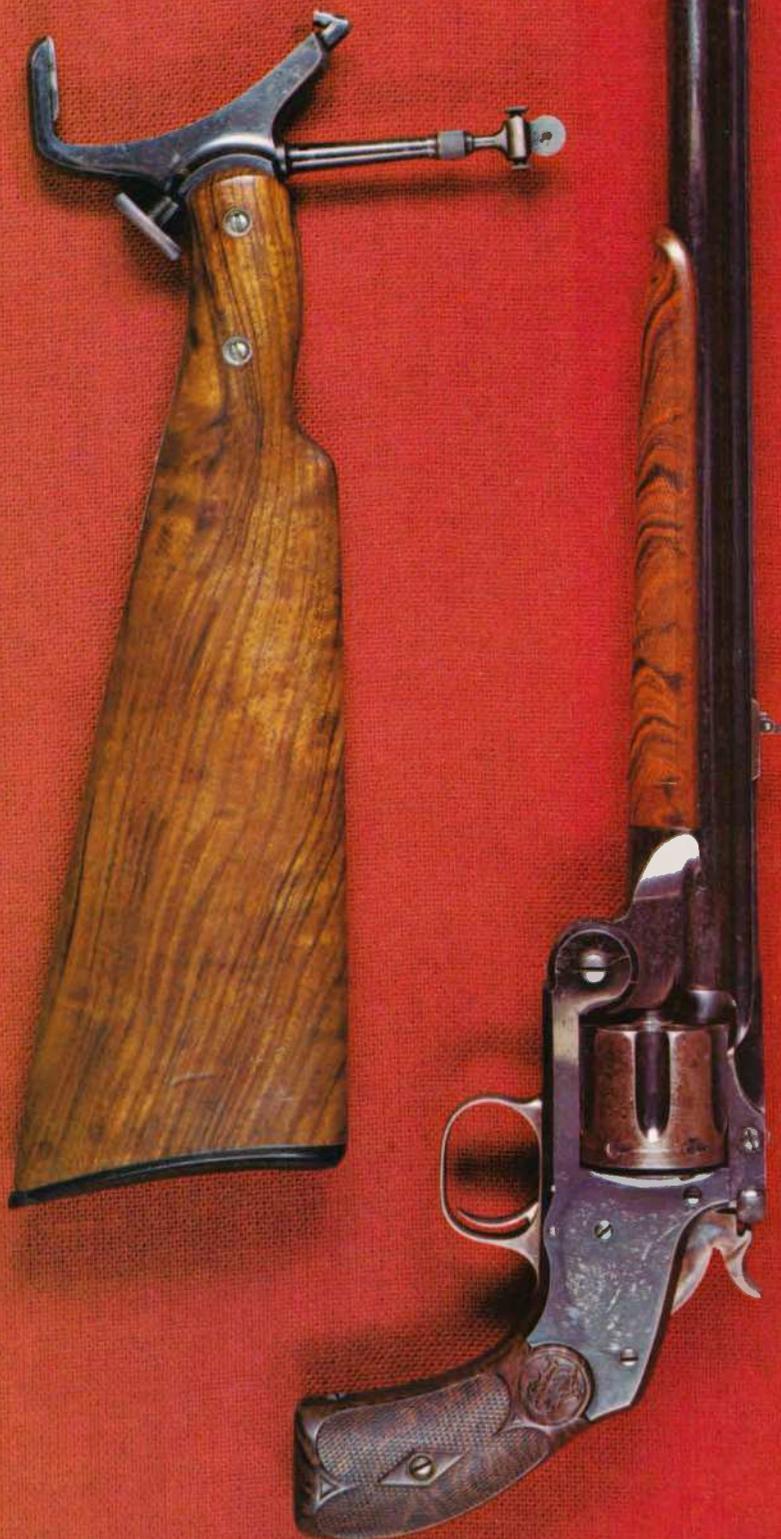
shows and in pawn and gun shops.

Take particular notice of how most of the models generally considered rare and highly desirable as collectors pieces are not mentioned because their total production was well over one thousand. Some examples of these are the Model No. 1 First Issue, the Straight Line Single Shot, the three Ladysmiths, the Mexican Model, the First Model American, the Turkish Model, and the two Schofield Models.

In 1879 you might have read the following headlines in the Springfield "DAILY REPUBLICAN". Smith & Wesson after a long period of design and trials brings out its first rare model, the Revolver-Rifle. Of course, the possibility of ever seeing such a headline is nonexistent since, first of all, the company had no idea at the time that it would ever become a rare model and, second, it would not have been a rare model then, it would have been a mistake they would like to forget rather than advertise. Now it is a rare model and a highly desirable item. It is one of the few in the really rare category that will probably never be picked up by a collector as a "sleeper" since its long barrel and butt stock keep it from ever being mistaken for just another old run-of-the-mill S&W.

The 320 Revolving Rifle, as we call it today, began production in 1879 with all but a half dozen being completed by 1880. The last six, which were probably unfinished frames and barrels left from the original production run, were supposedly completed in 1886 or 1887. This model was made by using the Model No. 3 New Model frame (which went into production in 1878) and attaching a long barrel and detachable butt stock. Serials ran from 1 to 977. The barrel was made in two pieces screwed together about two inches forward of the breech end. Three lengths were available, 16", 18", and 20". Total production of the various lengths were: 16"-239, 18"-514, 20"-224. The fore-end piece and the pistol grips were made of mottled red rubber and the butt stock of Circassian Walnut. The butt stock was made like the one for the regular Model No. 3 New Model except for two items. The upper tang was drilled and tapped for a screw-in type peep sight and the lug which fit into the butt of the pistol

Perhaps the rarest of all S&W's is the 320 revolving rifle with a detachable shoulder stock. Photograph by Dr. R. L. Moore; owner M. Harris, Jackson, Miss.



THE RARE S&W's



Top: The Wesson Favorite. Note patent dates and name stamped on cylinder.
Bottom: Smith & Wesson Hand Ejector, Model of 1903. photo by Edward McKin.



Smith & Wesson .38 Single
Action; the Mexican Model.

grip was made longer. A filler screw was inserted in the peep sight hole when it was not in use since the sight was an option rather than standard. The normal rear sight was a two position flip-over notch type mounted in a dove-tail slot in the barrel rib. The front was a square back blade mounted on a block which would slide onto the barrel rib. A globe front was optional and used the same type of slide off mount as the blade. About the last fifteen of this model were supplied with butt stocks using the pistol type short bottom lug.

The company made its next rare model before production of the first one had even ceased. This, in fact, is the rarest model the company ever made and is so seldom seen that until recently only a hand full of collectors even knew it existed. This one can be a sleeper. As a matter of fact the only one the author has so far seen was purchased by a collector in 98% condition at a gun show for about \$30. This is the 32 Double Action First Model, the first of a series of five 32 Double Actions. Though it looks very much like the four (Continued on page 50)

OPPOSITE PAGE

Bottom: S&W .35 auto pistol.
Top: Rare .32 S&W auto pistol,
made from 1924 through 1936.
Photo by Edw. McKin



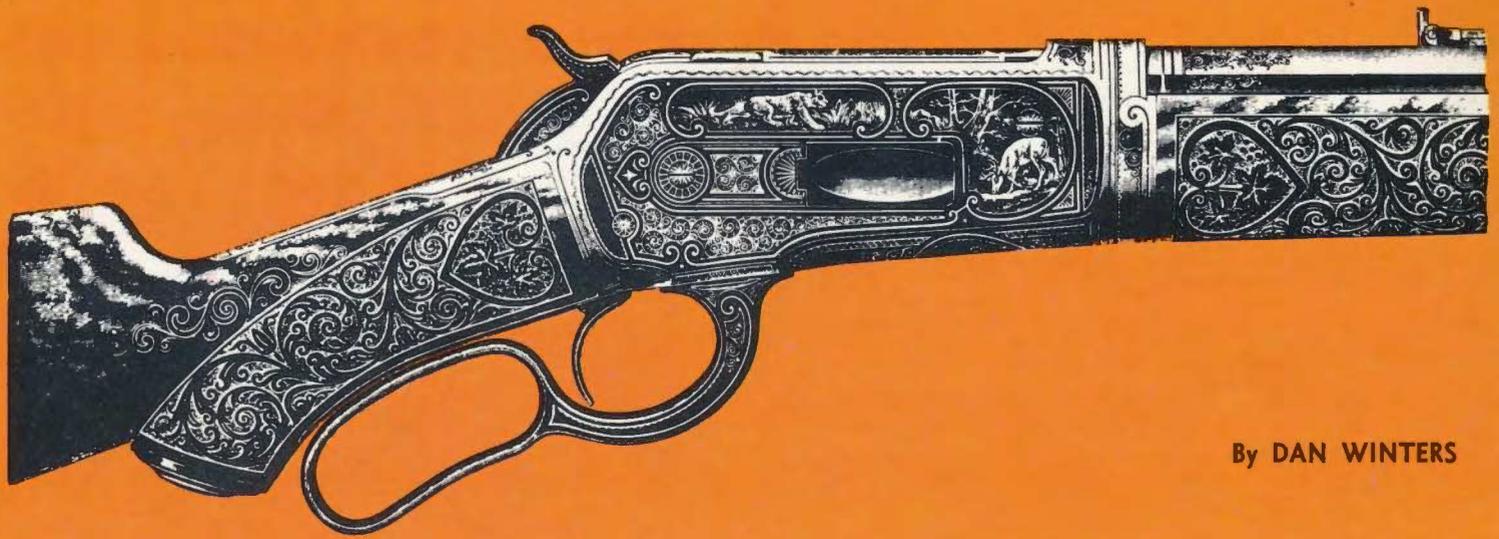
Guns Color Gallery

PATENT PIRATES

Evansions of the Rollin White patent for revolvers. Top are two Pond's Front Loaders. Bottom was made by Lowell Arms Co. The knife is only a knife—and not really a patent infringement.







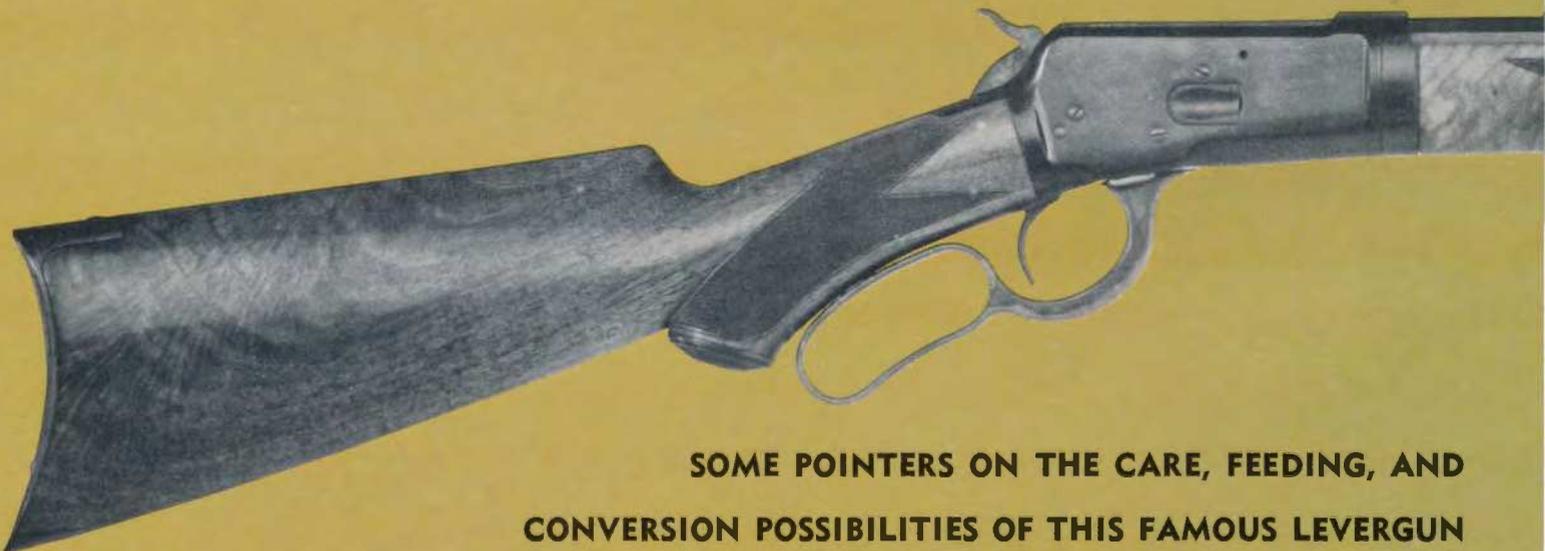
By DAN WINTERS

So You Own a
MODEL 92
WINCHESTER

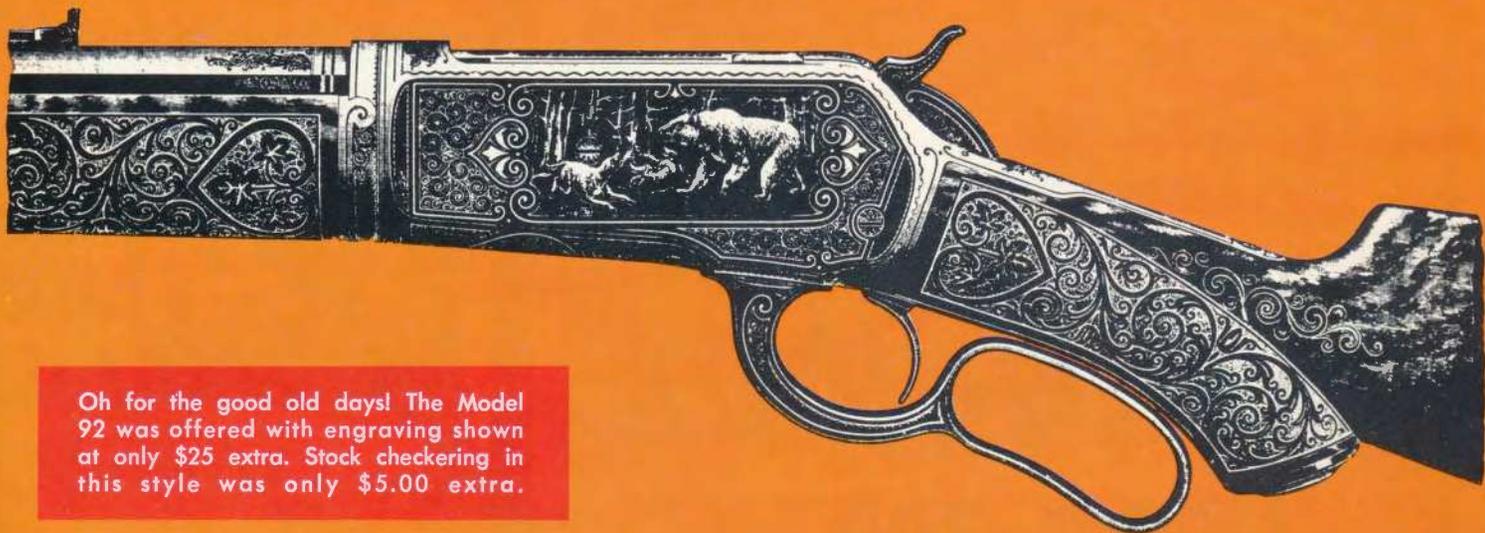
ONLY A VERY FEW models of sporting rifles have become so popular that more than a million have been produced. The Winchester Model 94 and the Savage Model 99 are perhaps the most famous rifles to become so honored. But there is still another, and oddly enough this too is a lever action—the Winchester Model 1892.

Before the '92, Winchester had several cartridges which were gaining in popularity, even though chambered in only one Winchester lever gun—the ungainly Model 1873. These were the .44-40, .38-40, and .32-20; rather small cartridges for such a large gun. To better match the size of the gun to that of the cartridge, Winchester developed the more modern, and smaller sized Model 1892. Actually, the '92 was a scaled down version of the Model 1886, since it also featured the strong locking system of the big-bore '86.

So it was that in mid-1892, devotees of the .44-



**SOME POINTERS ON THE CARE, FEEDING, AND
CONVERSION POSSIBILITIES OF THIS FAMOUS LEVERGUN**



Oh for the good old days! The Model '92 was offered with engraving shown at only \$25 extra. Stock checkering in this style was only \$5.00 extra.

40, .38-40, and .32-20, a great number probably carrying a Colt Single Action in one or the other of these calibers, were offered a small, rugged rifle as a companion piece. The '92 was offered in a rifle style (24" round, octagon, or half octagon barrel); a carbine (20" round barrel); and also in a military musket version (30" round barrel). In addition, Winchester furnished a good number of '92's with shorter barrels, from 14" to 18" in length to the South American market. In 1895, another caliber was added to the chambering of the '92, the .25-20 WCF. And, while we're on the subject of calibers, Winchester advises that during 1936-1938 a few '92's were chambered for the .218 Bee—on special order. The last of the '92's—in carbine style—were offered in 1941. The total production of all models was about 1,004,067.

That's a short history of the '92 Winchester, but what about your Model 1892? Probably the first

thing you'll want to know about it is: "How much is it worth?" From a recent check of used gun dealers and antique arms catalogs—and regardless of what any of the books on gun values may say—the average retail price of a used '92, when you can find one, is between \$60 and \$120. This is a pretty wide range, but will pretty much cover any '92 in good to very good condition. Please note that this is for the standard rifle and carbine. It does not cover the take-down models; fancy sporting models; engraved '92's; or any special order guns. These are collectors items, and their value cannot be judged in generalities. Just how much these are worth is subject to many factors, such as style, actual condition, degree of ornamentation, etc. If your '92 falls into this collector's category, you either know what it's worth, or you should have it appraised by a reputable dealer or collector by actually (Continued on page 52)



Top: Model '92 sporting rifle in takedown version. Bottom: The '92 carbine with standard round barrel.

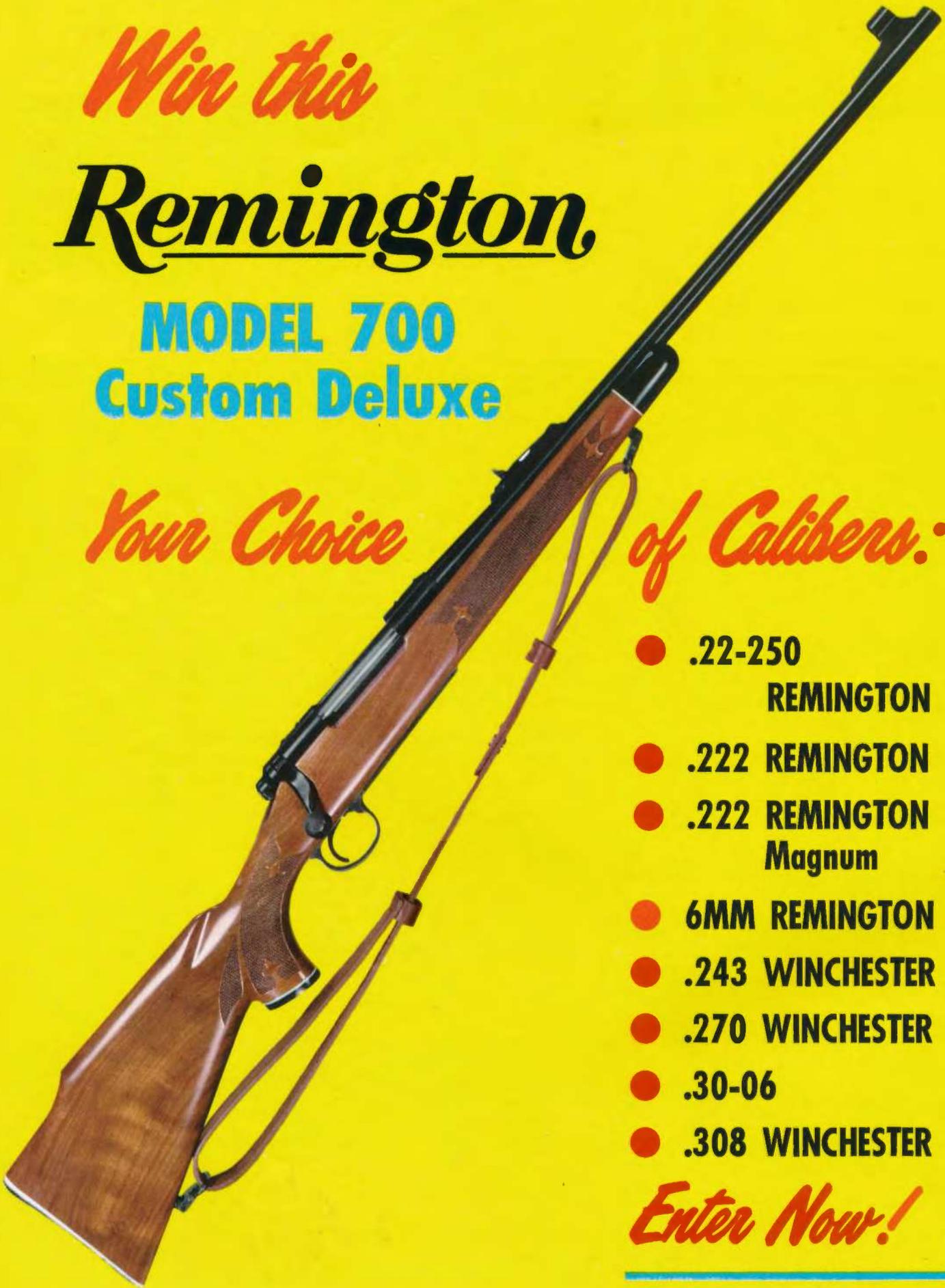
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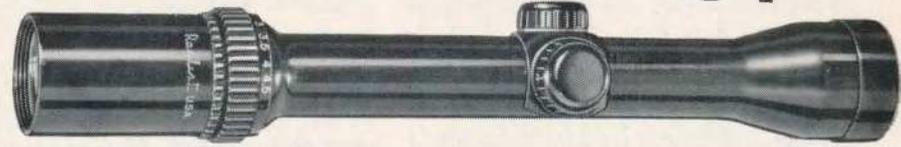
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PULL!

By DICK MILLER

TELLING ANOTHER PERSON how to break skeet targets is not easy! It may be a popular pastime at the gun club, but that does not make it a simple task. More often than not, telling someone else how to smash a flying clay target involves translating the best of advice into a vocabulary that communicates with the shooter on the level of his or her experience.

A few years ago, I had the very rewarding assignment from the old Sportsmen's Service Bureau program of SAAMI of teaching skeet to a large number of people in the Midwest. As is so often the case, the teacher probably learned much more than the pupils. At least I learned, albeit the hard way, that some forms of shooting advice communicated better than others. When this program went into effect, my background in offering shooting advice had been, for the most part, limited to the kind of friendly shooting tips offered one shooter by another around the gun club during my own competitive skeet shooting days. It soon became painfully apparent that this form of advice didn't mean much to a 12-year old girl who had never fired a gun in her short life until the day she was presented by her parents at one of my Teen Hunter Club workshops.

The old, or standard form of advice didn't do much for the 60-year old female school teacher at an educators' workshop in Michigan, whose sole exposure to a gun had been when as a girl she fired her father's shotgun, then ran all the way home from fright and pain. The standard words of advice were not always enough even for police department training instructors who were in my riot gun classes at the Indiana University Center for Police Training. We used skeet very effectively as a training device for competence in the riot gun. My students were accomplished pistol shots by the time I received them, but even their skills with the handgun did not always provide a translatable vocabu-

lary for the new experience of skeet. The nub of the whole problem is the matter of lead. Obviously to break any skeet target you must "lead" it i.e., compensate for the speed and angle of the target by shooting ahead of it. It goes without saying that if you shoot at most skeet targets, you have missed! The skeet bird refuses to sit still. If you shoot at it, you shoot at where it was, not where it is, and the result is a big zero on the score sheet. (At the gun club, we would cheerfully sing out to our fellow shooters such gems of advice as "lead that target by three feet.")

Now, back to our little 12-year old girl shooting a shotgun for the first time (or very often any gun for the first time). What does "three feet" mean to her? She has enough to think about in just maintaining control of the gun, moving the barrel somewhere in the vicinity of the target, and pulling the trigger. It becomes completely unrealistic to ask her to do all of this while at the same time making like a computer and estimating a lead of three feet. And, what might look like three feet to me could look more like nine feet to her (or any other beginner).

One other fact became painfully apparent. When I told the neophyte to lead the bird by three feet, she most often placed the gun muzzle three feet ahead of the bird, stopped the barrel, and pulled the trigger. Result? One missed target, one unhappy shooter, and one frustrated coach.

So, early in the game I learned a new vocabulary, which worked quite well (at least the student hit a respectable number of targets, which was the object of the game). I will now use that vocabulary to describe the shots taken from each of the eight shooting posts of skeet.

On post one, the high house shot comes from behind the shooter and flies away from him. Obviously, to lead this target the shooter would shoot very slightly under it. I simply

told the students to imagine that this bird had little feet dangling from it, and that they should aim for the feet. I could have said, "Shoot at the lower edge of the target, but that did not draw a picture in the beginner's mind as well as the imaginary feet. For the incoming bird, from the low house, I asked the student to imagine that the target had a nose, coming toward him, and that he should shoot off the tip of the nose (translation—lead the bird slightly). Of course, prior to post one, I had told the shooter to *never* stop the barrel, and that all this advice must be taken with the barrel moving in a smooth swing.

On post two, both the incomer and outgoer had imaginary noses, about a foot long, which must be shot off. For the rank beginner, I spared them the standard skeet shooter's problem of starting the swing from too far back toward the high house, by making sure that their pointing foot was aimed at station eight (left foot for righthanders, and right foot for south-paws), then asking them to move the muzzle back toward the high house until I stopped it at a point about $\frac{2}{3}$ of the way between post one and station eight. (Note: Experienced skeet gunners have trouble with high house two because they face too much of the body toward post one, and try to pick up the bird as soon as it emerges from the house, which results in their chasing the bird too far and never catching up with it. If you are an experienced shooter, with a hang-up on high two, which is common to the breed, check to see if you are facing station eight, then don't go back so far toward post one before starting the swing.)

For the beginner on low house station two, the imaginary foot-long nose and unstopped swing is usually enough advice.

I used one other bit of advice for stations two through six which was an effort to relate my advice to something any student might have done in the past. I asked them to imagine that the gun was a paint brush and that they were simply painting out the target with a long stroke of the paint brush (another popular gimmick is the garden hose). The paint brush or garden hose was calculated to insure a smooth, flowing sweep, resulting in an easy, relaxed swinging motion. Strangely enough, it worked—even with some police personnel from Tunisia who did not speak English very well, and I don't parlez vous Francais at all.

To keep it simple, I put two-foot noses on the targets from station three, and three-foot noses on the birds from station four. Also, I per-

mitted the gun muzzles to go back only about 1/3 of the way from station eight to the traphouse before starting the swing. Here again, I've seen the shooter with some experience under his belt stand at post four with his feet angled toward station one for the high-house target, then start his swing from almost all of the way back to the house. In my observation, there are few people who can swing a gun that far fast enough to catch up with the edge-on target. The trap rule I have quoted, which holds that the less you must move the muzzle to hit the target the better off you are, applies to an even greater degree in skeet. Or, for another vocabulary exercise, it takes longer to move a gun muzzle 30 feet than it does to move it ten feet (Miller's Theory of applied physics).

Stations five and six are but the reverse of stations two and three. Station five birds have two-foot noses, and station six targets have one-foot olfactory appendages. You shoot the nose off the incomer from station seven, and shoot the outgoer from station seven right in the tail (that always produces a laugh, and broken target, happily).

Station eight strikes sheer terror in the hearts of all beginners. They approach the station trembling and quaking. It always takes a while to get through to the tyro that station eight should be the easiest station on the field. They just don't believe this. Talk about your credibility gaps. Here is a prime example. There is only one way to shoot station eight. For the high house, point your gun at the lower right-hand corner of the chute from which the target emerges, and when you see the target, shoot it in the face. On the low house, point at the lower left-hand chute corner, then raise the muzzle and shoot the target in the face after it appears. If you

pause to calculate angle, hold, speed, etc., you might as well unload the gun and move to the next station. The target will have been long gone before you complete your calculations.

Now that the class has been completed on single targets, we are ready for the four pairs of doubles targets. At this point, I always delivered a mini-lecture which dwelled heavily on the fact that there is *plenty* of time for shooting the two targets.

I explained, for example, that on post one they were to shoot the feet off the outgoer, then calmly swing over and shoot the nose off the incomer. I intoned that on post seven they were to shoot the outgoer in the tail, sock the incomer in the nose.

For posts two and six, I reminded them of the paint-brush and/or garden hose technique, and said again and again and again that they should break the first target as if it were a single, then calmly swing over and finish the pair by breaking the incomer. I explained very, very carefully that the only reason a shooter who could break single targets ever missed a doubles target was that he or she was in too big of a hurry, and rushed one or both of the doubles shots. The shooters who took my advice broke a pair. The shooters who did not missed either one or both of the pair. And, in case today's reader is wondering, yes, there were instances when one of the students took my own advice and beat me in a game of skeet. Like many other teachers, I seem to be able to give advice better than I am able to follow it.

C'est la guerre! (the other half of my French vocabulary, which is the reason I had to *demonstrate* each skeet shot to the Tunisian national police officers rather than explaining it, as I have tried to do today).



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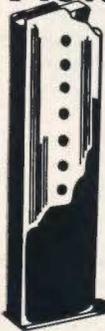


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NRA SHOW—ASKINS

(Continued from page 21)

ton & Richardson have two things going for them. One is the .17 caliber rifle and the other is the .30 caliber barrel which has no visible lands or grooves. The .17 is made up on the .223 cartridge and it is (so far) strictly a handloading job. The "polygon" barrel as the new tube is called is swaged with a square button that has had the corners rounded. The bullet is given a spin rightly enough and accuracy is claimed to be good.

In the Weatherby booth the newest ordnance is the .240 Weatherby Magnum. At first blush the cartridge looks like the .257 magnum necked to .24 cal. But this ain't so. The casing is a brand new design. There was a lot of interest in the Weatherby Varmint-master which has recently been chambered for the .22-250. The Garcia Corporation, makers of one of our most complete line of fishing tackle have taken over the importation and sale of the excellent Beretta shotgun. A complete line of side-by-side and over-unders are available.

Shooting Equipment, Inc., Chicago, are one of the largest manufacturers of shooting ranges. They offer completely automated ranges in which the targets are electrically moved from firing line to firing point, and are electrically timed for any exposure in seconds, and all this from a central control console. Running targets, bobbing targets, turning targets, the Olympic rapid fire, Standard American and police combat courses are a part of the package. The firm will provide the ranges for the Olympiad in Mexico City this Fall. The Thompson/Center single shot pistol, one of the most modern designs among handguns, is now offered, I noted at the NRA bash, with a shortened barrel and considerable engraving on the barrel and receiver.

Daisy, at the NRA Show last year, offered the Feinwerkbau high precision air rifle. This rifle is made in West Germany and imported by the Rogers, Ark., firm. This year, for some odd reason the rifle was scarcely in evidence. The whole play was in the training now undertaken by army recruits being prepared for Vietnam. This is called "Quick Kill" and is accomplished with one of the garden variety Daisy lever guns. (See articles starting on page 18) The marksman shoots not by aiming but simply by pointing. It has a lot going for it if the

range is not too great. The Marlin Firearms Co. has a new .22 auto-loader. This is the Model 49. It is a sleek looking gun with a tubular magazine, a 22" bbl., 5½ lb. weight, grooved for a tip-on scope mount and stocked to fit a man.

In the Smith and Wesson booth the pistol of most interest was the Model 41 .22 Long Rifle with extendible front sight. The heavy barrel has been grooved along its top and the front sight is mounted on a long shank which fits quite snugly into the milled slot. Two Allen screws serve to anchor it. The gunner can adjust his sight radius by the use of this latest S&W innovation anywhere from a minimum of 7½" to the full 10 inches.

Pete Gould, the Oregon stockblank man, has some of the most mouth-watering pieces of myrtle ever displayed at any gunshow! Besides the show pieces, which he places on exhibition, Pete about has the corner on the myrtle blank business in his end of the world. There isn't a more compelling booth at the show than the Gould woodworks. Colt Firearms is making a series of four commemorative World War I .45 auto pistols. The first of these was the Chateau Thierry. At the NRA this time they had the second of the series; the Belleau Wood. Each pistol has a battle scene on it together with medallions and engraving to indicate its particular commemoration. These pistols, like all of the previous Colt's, will be hot sellers.

There has not been an NRA meeting in recent years that has not had included the Williams Gun Sight Co. display. They are manufacturers of the famous Williams Guide Open sight; literally scores of rifles, by various makers and in countless models, all sport this Williams sight. It is a duzy, combining both windage and elevation, and all packaged into an exceedingly compact unit. The book, "How to Convert Military Rifles" was a best seller from the Williams stand this year.

Speer, Inc., Lewiston, Idaho, makers of a complete line of rifle and handgun bullets, have very recently combined forces with DWM, and will offer a line of the more popular American rifle cartridges, commencing with the .222 and including the .300 Win. Magnum. On the metric side the choice will be a good deal broader and includes a number of the more hotrock

types, such as the 7 mm vom Hofe, which drives a 169 grain bullet at 3300 fps MV. Speer also has empty cases and Brenneke rifle bullets.

Down the aisle, we spotted the **Alcan Co.** booth, showing the wide range of reloading supplies they offer. Many gun shops are using their new display unit, and you can pick up your reloading needs super-market style. **Tasco Sales**, importers of a fine line of Japanese rifle scopes, drew big crowds of shooters. They have done a good job of making this scope line one of the hot sellers this year.

John Winslow, the Florida gun-maker, had a handsome display of his custom rifles, including his hot new .17 caliber. John got on this bandwagon early, and should be one of the major factors in the growing popularity of this mini-cartridge. **Bill Sucher** of **Century Arms** had a full display of his surplus rifles at the show, and had a new item for all to see. This is the **Carl Gustaf 83**, a target rifle in .308 or 6.5X55 caliber. Built around the Swedish Mauser action, this rifle is already the gun to beat in Sweden and England.

Gunsmiths and gun-tinkerers had a ball at the booth of **Bob Brownell**, Montezuma, Iowa. Bob always has a booth full of goodies, and combined with his know-how and "everybody's my friend" personality, it was hard to pull away. Another booth that is hard to leave is the one exhibited by **Dixie Gun Works**. These guys brought their southern hospitality up to Yankee country—along with a couple of barrels of antique gun parts, catalogs, and black powder guns—and had a ball showing it to one and Y'all. The big talk at the **High Standard** booth was, of course, their new 28 gauge pump shotgun. This is new for '68, and appears to be an instant hit. **Charter Arms** displayed their new 3" barrel revolver; the new holster being offered for the Undercover; and talked a bit about a new gun on the drawing board—very interesting! One of the most impressive displays was that of **REI Engraving**. This new outfit has some fine engraving done in Japan, and very conservative prices (see **GUNS**, June, 1968). A long-time exhibitor, **Jet-Aer Corp.** was showing their new G-66 products, including the silicone-treated gun cloth, new plastic spray gun stock finish, and the popular G-66 Gun Treatment.

It would be impossible to cover each and every exhibitor at the show, let alone every product of interest. We have tried to hit the highlights, and cover the new products. See **Bob Mandel's** "Collector's Corner" for coverage of the antique exhibits.



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RARE SMITH & WESSONS

(Continued from page 38)

models that followed it, it is still easily recognized by two features. First, it has the same type straight cut side plate found on the 38 Double Action First Model—where the side plate cut-out is almost a straight line from top to bottom of the frame on both the front and rear edges. Second, serial numbers ran from 1 to 30. That is right, they only made thirty of them. All were produced in 1880. Serials 3 and 14 were sold to F. Wesson and serial 8 sent to M. W. Robinson as a sample. Serials 9 and 26 were sent to the Australian Exposition on September 15, 1880, and quite likely never returned to this country. That leaves us twenty-eight to look for. One has turned up (serial 15) so where are the other twenty-seven.

Hardly had the last rarity been created when the next came into existence. This was the Wesson Favorite, actually a modification of the 44 Double Action First Model. It was serial numbered with the 44 Double Action but was listed as a separate model by the company. Serials ran from about 8900 to 10100 in the 44 Double Action series with total production coming to about 1,000 guns. The production run was made in 1882-1883 with barrel length of 5". Although an absolute statement cannot be made at this time, it is believed, with good foundation, that all were nickel plated. This model was designed like the 44 Double Action except that extra cuts were made in various parts with prime objective of reducing weight. Grooves were cut from front to rear in the sides of the bottom strap. A groove was cut along the top of the barrel rib and the barrel diameter was reduced. The side plate was made thinner and the lock work cuts were made extra deep. The slanted cut in the top strap was carried further to the rear, and extra metal was removed in the hinge joint. The cylinder diameter was reduced forward of the front set of stop notches and the company name and patent dates usually found on the barrel rib were placed on the cylinder over the bores. If you know what you are looking for it is easy to recognize, yet it could still be easily mistaken for a common 44 Double Action and purchased for less than \$50, and I have known this to have happened. I have also seen them sell for as much as \$900.

Twenty-four years were to elapse before the next model to be consid-

ered came into being. This was the Model No. 3 Single Action 38-40 Winchester produced in 1907. The gun was serialized in its own series from 1 to 74. Many collectors consider it a variation of the Model No. 3 New Model rather than as an individual model. In most respects this classification is valid but the author prefers to consider it an individual model. There are two reasons for this, the first being rather simple and straight forward. It is serial numbered in a separate series. The second is based strictly on the authors opinion. It is our belief that the existing variations within the basic Model No. 3 New Model are numerous enough without adding others by including other guns based upon its frame. We would be forced to include not only the 38-40 but also the Single Action Frontier



S&W Light Rifle, Model 1940

(also numbered in its own series), Single Action Target (numbered in its own series), Turkish Model (numbered in its own series), and perhaps the 320 Revolving Rifle (numbered in its own series also).

As indicated above, the design of this model was the same as the Model No. 3 New Model. The only difference being its chambering in 38-40 Winchester and the use of the long cylinder (1 $\frac{1}{16}$ ""). The standard Model No. 3 New Model used the short (1 $\frac{1}{16}$ "") cylinder for the most part with the long one being fitted on perhaps a few hundred of the very late production. Barrel length of the 38-40 was 6 $\frac{1}{2}$ " with target sights available. Finish was blue or nickel with most probably finished blue.

Obviously this model is seldom seen for sale, but when it is, it is generally priced about the same as a like condition Model No. 3 New Model. This would put it in the general range of \$75 to \$150. This type of pricing will no doubt prevail for a while longer but one day soon you will be able to multiply this by five to ten. The number of S&W collectors is growing rapidly, and where there is demand

beyond supply, prices go nowhere but up. Prices of Colt Single Action Armys, for example, have remained rather stable in the past ten years while the prices of the more popular S&W models have in most cases doubled and more.

Next to be considered is a model within a series not generally sought by collectors. This is the 32 Hand Ejector Model 1903 Third Change made in 1909-1910. Only 624 of this model were made. This was one of a series of eight 32 Hand Ejectors made between 1896 and 1940 and has no unusual distinguishing features. As a matter of fact it looks just like the models before and after it since the minor design changes which classed it as a different model were all interior. About the only way to pick this model out from the others is by serial number. Serials were 95501 to 96125. It was available with 3 $\frac{1}{4}$ ", 4 $\frac{1}{4}$ ", and 6" barrels and with blue or nickel finish. Target sights were also available.

As stated above, this model was one of a long series of very similar models. There are two other such series within the S&W line prior to 1945. These are the 32-20 and the 38 M&P Hand Ejectors. For understandable reasons collectors have never taken much to these three lines. Even though all three were introduced before the turn of the century they look very much like their counterparts made today. A few selected pieces among them do have some different features which have brought them into some popularity. Some examples are the 1896 Hand Ejector, because it looks quite different from the rest and is the first of the 32 Hand Ejector line; target versions of any of the three series, because they are both different and scarce; the 1899 Model 32-20 and 38, because they are different in that they lack the front locking lug under the barrel and also they were the first models of their series; the 1899 Army and Navy and 1902 Navy issues of the 38 M&P series, because they are U.S. Martials. Except for these examples these three lines are considered a bit too modern yet to attract any major collector interest.

Next in the line of rarities is the 32 Automatic. This model was put on the market in 1924 and the last one sold in 1936. Serial numbers ran from 1 to 957. This model is in rather high demand today and may bring from \$150 to \$300 depending on condition. It was chambered for the 32 ACP cartridge, had a 3½" barrel and blue finish. It appeals to both the S&W and the automatic collector and thus its demand is pushed up. This is evidenced by some of the advertisements I have seen lately such as "Wanted 32 S&W Automatic—will pay your price." Even with the demand so high you could still pull this one out of a pawn shop for \$30 to \$40 with some good luck. It looks enough like the other more common pocket automatics of the period to pass as one of them and make its way from dresser drawer to pawn shop to you for less than \$50.

The last three of the "Rare Ones" were all made in 1940. The first of those was the K-22 Hand Ejector Second Model of which 1,037 were made. This model was made from 1940 to 1942 and numbered in the 38 M&P series in the range 682424 to about 1000000. This model is easy to distinguish from the First Model because of the change in rear sight design to micrometer type. The barrel still had no rib, that not being added to the K-22 line until the Third Model came out in 1946. Be careful that you do not get fooled by a First Model that someone installed a micrometer sight on. I almost fell for this myself some years ago. The seller was not trying to push it as a Second Model, he did not even know there was such a thing. To him it was just another pre-war K-22. Check the serial number.

Not far behind this model came the K-32 First Model. It was also numbered in the 38 M&P series and began at 690000. Only 76 of this model were made from 1940 to 1942. The design of this model was like the late 38 M&P target issues except that it was chambered for the 32 S&W Long cartridge. The barrel had no rib and the old type rear sight was used. It could very easily be mistaken for the Model 1905 Fourth Change 38 M&P or 32-20 target. The general price range of the K-22, 32-20, and 38 prewar target models is \$75 to \$130. It is most likely that both the K-22 Second Model and the K-32 First Model could be purchased in that range if you find one. Most people don't know there is anything particularly scarce about them.

The last model of our study is the Smith & Wesson Light Rifle—Model of 1940. This was the only true rifle

made by the company up to 1945. (The 320 Rifle of 1879 was more accurately a long barrel revolver with a detachable butt stock.) This model was designed for the British military establishment under contract but was never officially adopted by that government. It was a semi-automatic arm which fired the 9mm Luger cartridge. It was about 38" long overall and had a 9¾" barrel. Its barrel length puts it under Treasury Department control and therefore out of consideration for most collectors. Serial records indicate that only 1,010 were completed and these were shipped to the British in April of 1941. When the British failed to accept the arm for military use its production was halted and what extra parts that were not shipped to the British were disposed of by the company. Some parts have turned up over the years including a few receiver housings serial numbered into the 4000 range. I heard some years ago that a martial collector in this country had a complete gun but I have never seen one outside the factory.

The 9¾" barrel length is probably the only reason the 1,010 guns have not come back into this country as surplus military weapons. Quite likely all 1,010 are still packed up in grease in some British armory. To a serious collector it might be worth the \$200 registration fee to have one.

So here we have the more scarce prewar S&W's. There are others that could just as well fit into this category. It is just a matter of what you are going to use for a starting point. If I had picked a slightly higher number of say 5,000 I could have added several more models. A total production of 5,000 does not make a gun very easy to come by. Had I done this I could have added the First and Second Model Single Shots, the Straight Line Single Shot, the First Model Ladysmith, the Model 1905 32-20 Hand Ejector, the Model 1905 Second Change 32-20 Hand Ejector, the Model No. 3 Single Action Target, the Mexican Model, the 38 Double Action First Model, the 38 Safety First Model, the 38 M&P Model 1905 Second Change, the Model No. 3 Single Action Frontier, and the First Model Schofield. This would have raised the rare model total from 9 to 22 of a total models during the period between 1857 and 1945 of 97. We cannot afford to make almost 25% fall in the rare category, it might discourage the S&W collectors.

Editor's Note: Readers who want more information on design details should refer to "Smith & Wesson 1857-1945" by Robert J. Neal and Roy G. Jinks.

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4X	39.50	6X	46.00	8X	57.00
10X	60.00	Weaver C4	8.50	C 10.50	V-22
12.50	K1.5	20.50	K2.5	or K3	25.00
K4	29.50	K6	32.00	K10	39.00
K12	48.50	V4.5	38.00	V7	42.00
V9	47.00	A2.8	14.25	A4	16.25
dot add.	6.00	Leupold 2X	29.00	3X	or 4X
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WINCHESTER MODEL '92

(Continued from page 43)

showing him the gun, not merely your written description.

OK, so you own a plain Jane '92. And, you don't want to sell it, or merely look at it. What can you do besides just shoot the hell out of it? Why not start by making it more presentable? A good rifle deserves to have a good appearance, and the '92 is certainly a good rifle. Let's start with the wood. If the stock is sound, but slightly beat up, you'll be surprised what an easy task it is to clean it up. I would suggest that if you are not already doing stock work you purchase one of the stock refinishing kits available from Jet-Aer, Birchwood-Casey, or Williams Gun Sight. They include just about everything you need for a complete refinishing job except the elbow grease. Follow the instructions with the kit, and you'll have no trouble.

If the stock on your '92 is cracked, badly gouged, or has shrunk away from the metal, don't despair. Replacement stocks are available. Most of the larger stock firms have '92 stocks in a variety of walnut grades, including E. C. Bishop, Reinhart Fajen, Roberts Wood Products, etc. Generally these are semi-inletted, with only a small amount of work required to make them fit your particular action. Of course, they will require finishing, and again the kits mentioned above are recommended for the beginner. Personal taste will dictate the type of finish you use, but I think that the '92 looks slightly out of tune if the stock is finished with one of the modern high gloss finishes. I would prefer a good, smooth oil finish. If you get a kit, order one with an oil finish; if you are working without a kit, get a good grade of oil, such as GB Linspeed, Birchwood Casey Tru-Oil, or G-66 High Speed Linseed Oil.

Now that the wood parts of your '92 look like new, how about the metal? As in the wood, there are several stages of wear and tear on most '92's, and several methods for making the old levergun look presentable. If your '92 has a good amount of the original blue finish, it may require only a little touching up. There are about as many touch-up blue products on the market as there are guns, and generally speaking, they are all good. Follow the instructions carefully, and you'll be pleased with the results. Remem-

ber this, though: the blue finish you get is only as good as the bare metal finish. If it is pitted or rough, that's the way it will be after bluing.

If you think enough of your '92, and it needs more than a touch-up job, you should think about a complete reblue. This will run you from \$15 to \$30 depending on local prices and amount of polishing required. I would suggest that you examine some of the blue jobs of your local gunsmith before you give him your gun. Most rebluers are careful about the polishing job, but some use the polishing and buffing wheels as if they were sharpening an axe. You want sharp corners and a smooth finish under the blue, and if your gunsmith can't give it to you there are gunsmiths who can—if the condition is good.

Although more than a million '92's were produced, they are quite hard to find on the used gun market. And one of the reasons for this is that many owners of '92 Winchesters are having them converted to modern cartridges—mainly the .44 Magnum and .357 Magnum. There are several gun shops specializing in these conversions, and, as usual, prices vary. However, a conversion, using your own barrel, which is rebored, should run between \$60 and \$70, depending on work required. Conversions which require a new barrel will run from \$70 to \$90.

The steps required to convert the '92 are outlined as follows. After disassembly, the first job is to provide the proper barrel. As mentioned, some original barrels may be rebored. The .25-20 and .32-20 barrels are rebored to .357 Magnum; but .38-40 and .44-40 barrels should not be rebored for conversion to .44 Magnum. Either of these barrels must then be rechambered for the cartridge. After the barrel is installed and the headspace checked, the magazine hole in the front of the receiver must be enlarged to permit the new cartridge to pass through. The next step is to bush the firing pin. This prevents ruptured primers caused by excessive size of firing pin hole. To permit proper feeding of the .357 and .44 Magnum cartridges, the cartridge guides must be altered. Such a conversion, done by a careful gunsmith, entails a lot more time and labor than the average gun owner realizes. In addition, a lot of mechanical knowledge is required, and a lot of

patience. So don't balk at the price of such a conversion. There are, of course, other conversions which can be made with a '92 Winchester. Those in .25-20 or .32-20 can be converted to .22 Jet, .218 Bee, or .256 Winchester. Those in .38-40 or .44-40 can also be converted to .45 Colt.

Bob Snapp, gunsmith in Royal Oak, Michigan, does a lot of '92 conversion work. He mentioned that on reborning conversions to .357 Magnum there is almost always excessive headspace. This must be corrected by blocking up the breech bolt, and is one of the most important, and most time consuming jobs of the entire conversion. Bob also commented on the fact that he has seen '92's in .44-40 rechambered to .44 Magnum, ignoring the fact that the .44-40 chamber is about .010" larger in diameter at the base than the .44 Magnum chamber; plus the fact that some .44-40 barrels are tighter than standard .44 Magnum barrels and the older '92's had relatively soft steel barrels. All of this leads to only one conclusion, and that is to get the best conversion you can, not the cheapest.

Getting back to the original calibers, there is not too much you can do with the .25-20 or .32-20 to make them any more than small or medium game cartridges. The 100 grain bullet in the .32-20 which has a muzzle velocity of 1290 fps in factory loads can be handloaded up to slightly higher velocities for use in the '92. The .38-40 and .44-40 calibers are different stories. Because these were also used in revolvers, the modern loads are underpowered for rifle use. The 180 grain factory load in the .38-40 has a muzzle velocity of about 1330 fps; this can be loaded up to over 1800 fps for rifles. In the .44-40, the factory loaded 200 grain has a muzzle velocity of 1310 fps, and can be loaded up to about 1850 fps. Most of the reloading guides and handbooks will give you a variety of loads suitable for the '92 Winchester.

So there are some suggestions on what you can do with your Model 1892 Winchester. Here's another: keep it in as good a shape as you can, and if you're fortunate enough to have a son, pass it down to him. If not, I'm sure you can find a deserving youngster who will appreciate a handsome, rugged, and dependable little rifle. In years to come, that little levergun will become a prized possession. The '92 Winchester deserves to be remembered for serving well the hunters, shooters, and ranchers until it bumped headlong into the smokeless powder era, and there passed on its heritage to another more famous lever action.



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GUN LEGISLATION

(Continued from page 29)

dence that the person to whom the firearm or ammunition is to be shipped is authorized under local law to receive such items.

"The federal regulations are quite inclusive (making) it unlawful both for the dealer to ship a firearm to a prohibited person and for that person to receive the firearm. These two sections, properly enforced, seem to give the federal government enough authority to severely curtail the shipping of firearms to criminals and other undesirables. Thus, the illegal traffic could be halted without additional legislation.

III. THE STATE LEVEL

"Thirty-five states have constitutional provisions guaranteeing the right to keep and bear arms . . . Most of these states have interpreted their constitutional provisions as permitting reasonable regulations for public safety . . . But (some of these states have statutory stipulations and others have recorded court opinions) that an absolute prohibition of private ownership of firearms would be unconstitutional . . . that a maximum degree of control over the criminal use of firearms must be provided without destroying the practical availability of firearms to the hunter, sportsman, farmer, or person in need of protection."

Brown's further treatment of state and municipal regulations are too long for inclusion here, and do not even then touch more than a few states or cities. Each gun owner should study his own regional situation. More important to the aim of this writing are Brown's conclusions:

V. DO STRICT FIREARMS REGULATIONS PREVENT CRIME?

"It is generally accepted that since 1940 the percentage of homicides involving firearms has declined. National statistics show that about 54% of all homicides are committed with firearms. But what happens if firearms are severely restricted, as they are in New York? In that city in the year 1963, the homicide rate rose 8.1 per cent. However, only about 25 per cent of these homicides involved firearms, compared with the national average of 54 per cent. Thus the effect seems to be that while firearms restriction has little effect on the overall number of homicides, it does result in a higher than usual number of homicides involving knives, blunt instru-

ments, and physical force.

"The FBI reported that . . . firearms were used in only 12.7 per cent of the reported cases of aggravated assault, with cutting or stabbing instruments accounting for 44 per cent and blunt instruments accounting for 24 per cent. It would seem that the importance of firearms in the most prevalent types of crimes has recently been much overrated. Also, a certain number of the police officers shot each year are shot with their own side-arms, a result which no amount of civilian firearms restriction could avoid. Strict regulation of firearms also will not prevent the common street crimes, since the assailants in most cases are not armed.

VI. INDIVIDUALS USING FIREARMS IN CRIME AND THEIR SOURCES OF SUPPLY

"From 1960 to 1962, of the 113 law enforcement officers killed in the line of duty, 109 were shot to death. Of the 142 persons arrested for these shootings, 75 per cent had at least one previous conviction, 56 per cent had been granted parole or probation, and 37 per cent were on parole or probation at the time of the shooting. Supposedly, such persons presently are not allowed to receive firearms in interstate or foreign commerce and in some states would not be allowed to purchase concealable firearms.

"The problem of 'mail-order guns' is significant . . . In 1963, . . . 25 per cent of the recipients of mail-order guns in Chicago had criminal records and were thus receiving these weapons in violation of the (already existing) Federal Firearms Act. It is submitted that current restrictions on the shipment of firearms are not properly enforced, and that this leads to a very dangerous source of firearms for criminals.

VII. CONFLICTING INTERESTS IN THE FIREARMS QUESTION

"While crime and accidents present compelling reasons for a strong firearms regulation policy, there are equally persuasive reasons to support the opposing point of view. There is considerable opposition to strict firearms regulation from shooters and hunters . . . Hunting and target shooting are popular recreations, and are much safer than is popularly believed. There are also economic benefits derived from hunting. In 1964, American hunters spent more than 1.5 billion

dollars on their sport, and most of this went into sections of the country where commerce is most needed, such as distressed backwoods areas. In addition, almost all of the funds collected from the sale of hunting licenses are spent on conservation and public recreation programs.

"Also, the need for firearms for defense is still a basic reality in this country . . . Firearms for defense still remain a legitimate need of law-abiding citizens . . .

"The most important question to be considered in any proposed regulation of firearms is whether it will effectively control the criminal misuse of firearms. If it will not, there is no justification for the burden it places on the law-abiding citizen who wishes to own firearms for sport or defense . . . It is undesirable for the final decision (as to who shall or who shall not be permitted to own firearms) to be left to the licensing official—chief of police, sheriff, or town marshall.

VIII. PROPOSALS AND SUGGESTIONS

A. The Federal Level

"Firearms can be regulated in some respects by Congress, using its authority over interstate and foreign commerce. In this manner, mail-order guns could be effectively controlled. A bill introduced . . . by Senator Dodd (was) purportedly designed to regulate mail-order guns . . . (but) this bill goes too far in restricting the sportsman shooter . . . (does) little to prevent crime . . . (and) the wide amount of discretion granted to administrative officials is undesirable. Enforcement would be difficult, since only law-abiding citizens would comply . . ."

A telling addition to researcher Brown's argument that anti-gun proponents do not know, or certainly do not enforce, existing laws can be drawn from an event occurring after Brown's paper was written. In January, 1968, federal agents made their first case on abuses of mail-order sale of guns. They based their case on a section of the *existing* Federal Firearms Act. The Federal Firearms Act was enacted in 1938, has been in effect for 30 years; yet the New York Times reported that the January 1968 indictment was the first of its kind in the nation in that long 30 year period!

Brown continues: "Another approach . . . provides that 'whoever, during the commission of any (crime of violence) uses or carries any firearm . . . shall be imprisoned for (an agreed number of) years. This proposal reflects the position that . . . it is not the firearm itself which should be regulated, but rather the



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use of the firearm . . . If the criminal knows that he will receive a severe penalty for the illegal use of a firearm, it will be a more effective deterrent than merely making the firearm difficult to obtain.

"B. The State Level

"It is apparent that there is need for some uniformity in this area. However, differing social and economic conditions will render complete uniformity undesirable . . .

"C. The Local Level

"In most situations, if adequate state firearm legislation is enacted, further regulation in the form of identical municipal ordinances is undesirable. Any attempt by a city to regulate the sale of firearms is worthless, because purchases will be made outside city limits . . . Firearm registration will not have any noticeable effect on the criminal use of firearms. The simple reason is that criminals will not register their weapons . . .

IX. CONCLUSIONS

"Serious consideration must be given to the use of firearms for defense and sport, before any regulation is enacted. The restrictions must be effective in controlling the criminal misuse of firearms in order to justify any infringement upon the private citizen's privilege to own such weapons. Generally, mail-order sale of firearms must be subjected to more effective control. Also, heavy weaponry (bazookas, anti-tank rifles, mortars) should be included in those 'gangster-type' weapons now severely regulated (by existing federal statutes)."

The fact is that those who say "There ought to be a law" completely ignore the existence of existing laws (federal, state, and local) which, if enforced, would get the job done as well or better than any new law they have recommended. Leading proponents of anti-gun legislation have,

through misinformed or deliberately false representations to news media, led the public to believe that there are no laws prohibiting criminals from obtaining guns, ignoring the fact that exactly such prohibitions have been existent in federal laws since 1938.

The same people complain bitterly against and aim libelous epithets at "the powerful gun lobby" which has opposed their efforts—again completely ignoring the fact that the entire "gun lobby" (the National Shooting Sports Foundation and the Shooting Sports Association, the two representatives of the firearms industry—the much-maligned National Rifle Association, and other national shooting organizations—and the American sportsmen in general) have long urged passage of well-reasoned and well-written legislation (such as the Hruska Bill) which would broaden, strengthen, and up-date existing federal statutes so that they would, if enforced, accomplish at least as much against crime as any legislation yet proposed by the Dodd-Kennedy-Administration propagandists.

What it boils down to is this: The anti-gun proponents are the *real* tilters at windmills. For it is they, most of all, who aim lances of ignorance at Gibraltors of violence.

The truth is that they are the makers of their own problems. If they would face the facts, report them honestly, apply them logically, and support legislation designed to accomplish their avowed aim (to reduce crime) instead of their secret aim (to disarm the citizen)—their opposition would vanish! The "powerful gun lobby" they so deplore would join them. And the end result might well be something far more important than any mere law: an active, effective citizen-participation, shoulder to shoulder with the police, in the war against crime in our streets! 

PRO-GUN AMMUNITION

Those who fight anti-gun legislation need more than determination—they need facts. Would you like to know how New York—the real test state on the value of strict gun laws—has reduced its crime; if it has? A new report, "A Statistical Abstract of New York State and New York City Crime Data," by Alan S. Krug, is now available. It gives documented facts about the true state of New York's crime, and it is great ammunition for the anti-gun law fighter. Send 25c for each copy to: National Shooting Sports Foundation, 1075 Post Road, Riverside, Conn. 06878.

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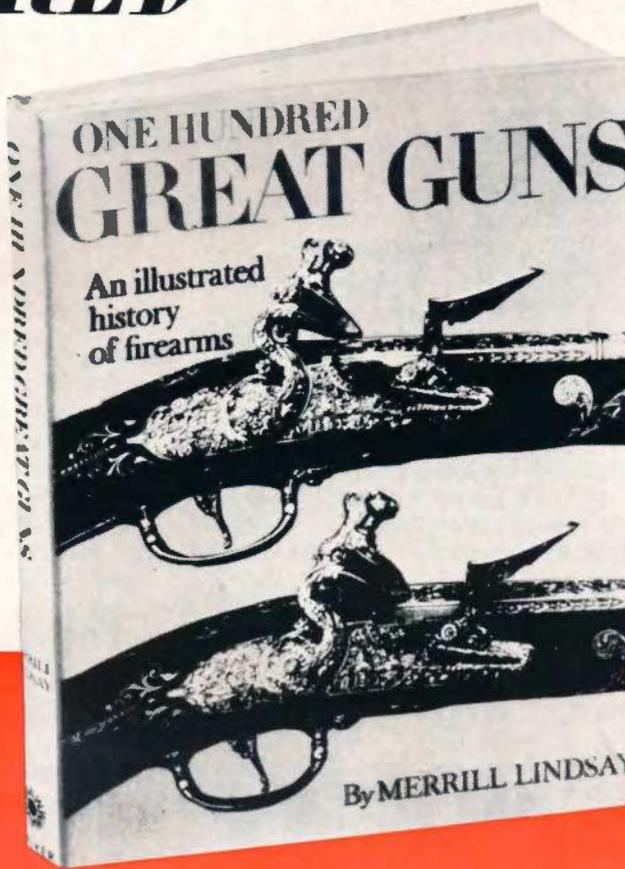
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(Continued from page 35)

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back is turned.

This procedure must be followed closely if you're making a scientific study of shotguns and loads and want figures accurate to the last decimal point. But the man who just wants to know if his gun is going to kill ducks, or doves, with a certain brand of shell—if it's shooting where it points and throwing reasonably consistent patterns—can go for a certain amount of simplification.

For practical hunting purposes, two or three test patterns per load do as well as five or ten. Averaging so small a sample your results may, statistically, be a few percentage points off, but the quail or pheasants won't mind. This cuts the work down considerably. And the patterning chores can be further simplified by carrying them out at shorter ranges.

Systems of testing shotgun patterns at ten yards have been evolved, and they are good for giving a general idea of the gun's performance, but at ten yards the average full-choke or modified barrel is likely to pattern so tightly as to blow one large ragged hole in the target. The dimensions of this gaping void will tell you something about how your gun is shooting, but for real information you need to see exactly how the individual shot-holes are distributed on the paper. (I don't recommend firing at a steel plate at short range; the pellets tend to bounce.)

My own preference is for patterning at exactly half the standard distance. The accepted standard is a thirty-inch circle at forty yards; scaling this down to a fifteen-inch circle at twenty yards will give you most of the same information, but the hiking is cut in half and the paper is a great deal more manageable. I use standard 50-yard pistol targets tacked to suitable cardboard cartons swiped from my friendly neighborhood grocer. The target paper is heavy enough not to rip loose from the thumbtacks at the first breath of wind; the black bull gives me a good aiming point; and when it's time to start counting holes I turn the paper over and work on the plain white back where they show up better.

Scaled-down twenty-yard patterns are, of course, not exactly equivalent to full-size forty-yard patterns. A few deformed shot tend to drop by the wayside between these ranges. However, for patterning your own guns and comparing them with each other,

this does not matter. Even if your figures aren't quite comparable to those published in books and magazines—and mine come fairly close as a rule—you'll soon learn to tell a good barrel or load from a bad one. And at twenty yards the job is several times easier than it is at forty.

All right. So you've fired your targets at twenty yards, you've taken them home, you've drawn a fifteen-inch circle around the densest portion of each pattern, and you've counted the pellet-holes inside each circle—you've done all this, and what have you got?

First of all, you've learned where your gun is shooting. Next you've learned whether your improved-cylinder barrel, say, is actually giving you improved-cylinder patterns with the particular load under test. This is determined by dividing the number of shot-holes in the 15-inch pattern circle by the total number of shot in the load, and multiplying by a hundred to get a percentage figure. (There are tables available giving the number of pellets per ounce for every shot size; however, as indicated above, it's safer to cut open a couple of the shells being tested and count the actual pellets.)

The generally accepted classification of chokes, give or take a few percent, is as follows:

Cylinder (Skeet)	30%
Improved Cylinder	40%
Modified	50%
Improved Modified	60%
Full	70%

Say your 12 gauge field load of #7½ shot counts 395 pellets, of which 150 hit inside the 15-inch circle: a quick calculation shows that your improved cylinder shotgun is giving 38% patterns, close enough to what it's supposed to shoot. This is interesting information to you, but it doesn't really mean much to a bird. What he's concerned about is the number of pellets coming his way at the range he happens to be.

It is generally agreed that four or five hits from pellets of a suitable size and energy are necessary to kill birds quickly and consistently. Let's be optimistic and call it four; if you're a pessimist you can correct the following figures to your taste. If we make some arbitrary assumptions as to the vital area in fractions of a square foot presented by various specimens of

feathered game, we can work out the approximate pattern densities required *at the target* (not necessarily at our twenty-yard patterning board) for most classes of birds:

	Area (sq.ft.)	Pellets/ sq.ft.
Very large (geese, turkeys)	1/2	8
Large (ducks, pheasants)	1/4	16
Medium (grouse, crows)	1/8	32
Small (dove, quail, woodcock)	1/16	64

These are the minimum densities that must be achieved out where the birds are flying. Now, to see how this works in practice, let's consider the improved cylinder barrel you've just finished testing, the one that put 150 pellets of #7½ shot into your 15-inch circle at twenty yards. A 15-inch circle covers 1.22 square feet. Divide 1.22 into 150 and you get a pattern density of about 123 pellets per square foot. This is almost twice as much as required for the smallest birds you may want to hunt; obviously you could kill just about anything very dead at twenty yards with the combination you're testing.

But very few birds are obliging enough to give you twenty-yard shots. What about thirty yards? Or forty? Or fifty? Or even sixty?

Here we come up against the hard fact that #7½ shot doesn't carry to sixty yards with bird-killing energy. It doesn't even do very well at fifty.

Every shot size has a limit to its effective range—a distance beyond which it gives insufficient penetration to do its job properly—but there's nothing exact about this figure since it depends on a lot of factors like what bird you're shooting at, how many feathers he's wearing today, and the angle from which you're shooting. However, as a very rough rule of thumb we can say that, starting with 35 yards as the limit for #9 shot, each succeeding size larger will shoot about five yards farther. In other words, eights carry pretty well to forty yards; seven-and-a-halves go perhaps to forty-five; sixes to fifty; fives to fifty-five; fours to sixty; and that's farther than I can hit a bird so we'll stop right there.

We don't have to concern ourselves, then, with fifty- or sixty-yard shots with #7½'s; they're not practical. But forty yards is well within the realm of reason. Let's see just how effectively this improved-cylinder barrel we're testing performs at forty yards with this particular loading. To do this, obviously, we have to convert our twen-

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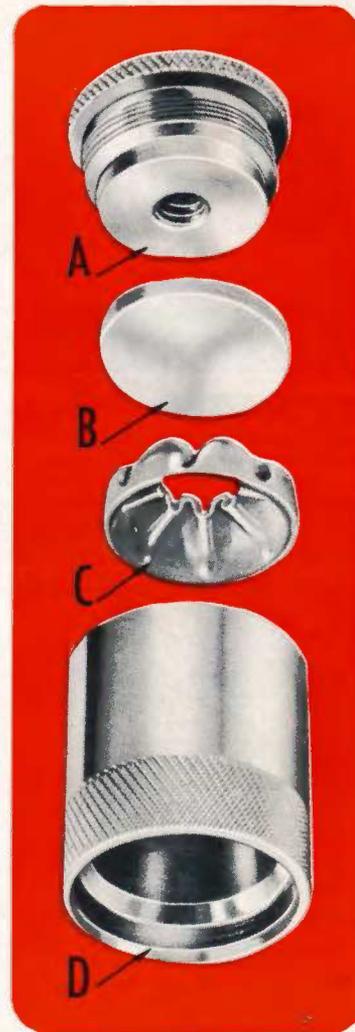
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ty-yard figures to forty yards, somehow.

Let's make the assumption that all the pellets that made it to twenty yards are going to make it to forty yards with approximately the same distributions. Although this isn't always strictly true, it's true enough for hunting purposes. But, obviously, those 150 pellets that made a nice, tight pattern at twenty yards, where they had only 1.22 square feet to cover, are going to be spread thinner at forty, where the diameter of the patterning circle has grown to 30" and the area to 4.9 square feet.

Dividing 150 pellets by 4.9 square feet, we get a pattern density of 31 pellets/sq. ft. Going back to our first table, we learn that this load-and-barrel combination at 40 yards will just about take care of grouse and crows; but the pattern is too skimpy for really small birds like dove and quail. If 40-yard dove shooting is your sport, you'd obviously be better off with the smaller #8 shot, which gives denser patterns because there are more pellets in the load; you might even have to go to a modified or full-choke barrel.

The system, then, is quite simple: first count the pellets striking within the 15-inch circle at 20 yards, then divide by the area the patterning circle would cover at a range in which you're interested.

The 60 and 70-yard figures are given just for fun. They'll give you some notion of the potential performance of your gun, but I don't feel the system is truly reliable much beyond 50 yards, if only because it assumes a

Range (yd.)	Circle diam. (in.)	Circle area (sq. ft.)
20	15.0	1.22
30	22.5	2.7
40	30.0	4.9
50	37.5	7.6
60	45.0	11.1
70	52.3	14.9

reasonable pattern uniformity over the entire circle. The special full-choke guns used for long-range waterfowling, however, give patterns with thin edges and dense centers; and if you're a good enough shot to put that central hotspot on a distant duck or goose you've got meat in the pot even though your average pattern density may be well below requirements.

But most birds—certainly most of my birds—are taken within 50 yards. Here a little 20-yard patterning work will tell you pretty much what you can expect from your gun and load. It will give you confidence in your equipment. If you have one of those days when you can't hit a barn from inside with the doors closed, and we all do, you'll at least have the comfort of knowing it's because you're raising your head or stopping your swing, not because the gun is letting you down.

And, come to think of it, patterning a shotgun may be a somewhat laborious business, but it's really no more tedious than reloading, or restocking, or shooting a rifle for group, or any of the other shooting activities that have lots of eager devotees. In fact, for anyone who loves firearms and likes to know how they work, it's kind of fun.

PRESSURES

(Continued from page 23)

and in over 20 others I have tested. A few I have tried will take 70 grain 4831 with a 160 grain bullet, but most require a cut to 67 or even 66 grains to be safe loads. The 64 grain load I have found to be safe in any gun I've tested when using the 175 grain bullet. However, I have set on 63 grains of 4831 as my own starting load.

The difference in these figures given in the handbooks show how much rifles and barrels can differ in the pressures they generate. The tests were right in the maximums arrived at in the particular rifle used for that test.

Something else that can make thousands of pounds difference in pressures is the make and type of bullet used. Jacket thickness, jacket material

hardness, lead hardness, and other factors all contribute to this difference. For instance, in my Winchester .264, I found that Winchester Power Point bullets of a given weight needed 3 grains more powder to get the same velocity I got when using Norma steel jacketed bullets. This means that the Norma bullet was building up more pressure in the barrel with the same load as used with the Winchester bullet.

Each of these handbooks will have certain data that will be of interest and help to everyone, in varying degrees. I have marked certain data sections in my different books with colored tabs, labeled with the data in that particular section, such as the energy tables starting on page 100 of Speer's Number 7 handbook or the

conversion factors on page 107. I have tabbed the decimal equivalents on page 48 of Hornady's book and the starting page of the ballistic tables are also marked. I have found these new tables to be of great value to me for comparing loadings and calibers, as well as different cartridges in energies, velocities and drop, at all shootable distances.

I noticed where one reviewer felt that the maximum pressures in pounds per square inch should have been added to all the loading data in these handbooks. I cannot see where these figures will serve any purpose, unless you know the pressures a given load develops in your own particular rifle. Anyway, pressure charts do not give maximum pressures, only averages.

I like Speer's method of listing loads, so that slow to fast burning powders are shown. Lyman's starting and maximum loadings, plus their accuracy and factory duplication loads are also very useful. Lyman's book is very complete as concerns the loading of cast lead bullets. Many handloaders like to use these for practice work, as it cuts the cost quite a bit. Others like the reduced loads to kill small game. Many of the cast loadings can be used with jacketed bullets, but velocities will be increased with these, above those given for the cast load, as it builds up more pressure.

I am also very pleased with Lyman's handbook because it gives the loading data on the various Weatherby Magnums, from the .257 Magnum to the .460 Weatherby Magnum. I do not know why loadings for the Weatherby 7mm Magnum were not listed, but Weatherby rifles that are throated for Weatherby cartridges and loadings can use the Remington loading data. Hornady's book gives all the Weatherby cartridge loadings, including the 7 mm Magnum. I don't especially care for Hornady's method of separating velocity readings in 100 F.P.S. increments and I see no value in listing large case loads down to a tenth of a grain. If there is any advantage of a 101.1 loading for the .460 Weatherby Magnum, over a 100 grain loading, I can't see it.

However, I do feel that small cases such as the .222 case head sizes can very well do with 1/10 grain listings. For instance, 1/2 grain, in the .221 case can mean the difference between long or short case life. I fully agree with Bob Hutton's contention that listing the pressures that various types and/or models of guns are built for would be desirable. This could be added as a sort of warning sheet, not right along with the loading tables.

The cost of a crusher type pressure gun, with individual barrels for each cartridge, caliber and barrel twist is prohibitive for anyone but a large company. Bruce Hodgdon has one as he tests all his surplus powders in all commercial guns so he will know what he has.

Strain gauges, probably the best of all pressure test devices are also prohibitive in price, for the individual handloader. The time it takes and the necessary knowledge to use one properly are also deterrents.

Last year, Gun Digest's 22nd edition described a new pressure test system that shows great promise. It is a sensor type, invented and developed by two brilliant research engineers in Michigan. This company, York-Cantrell, Inc., 30241 Rosebriar, St. Clair Shores, Michigan 48082, plans on selling the measuring units to the public. Cost will be \$295.00 per unit. The only drawback to owning one of these will be the fact that all cartridge cases used must be sent to, or bought from, York-Cantrell in Michigan, in order to have them machined on the head and the sensor that transmits pressure measurements installed. This will cost about 25 cents per case, exclusive of case and shipping charges. Since they are primed when the sensors are installed, shipping will be somewhat of a problem and rather expensive. Only field tests will actually prove the worth of this system to the handloader. It seems to be the answer to those who want a system that will give absolute pressures on their particular gun. It's the only way pressure tests will ever be of practical use to the handloader.

Meanwhile the new handbooks are really doing a good job of making it easier and safer for the man in the field to work up his own handloads. He should remember that they are for reference and comparison only and all handloading he does for his own guns must be made for each individual gun only. I have had two identical looking factory made rifles of the same caliber and barrel length that varied as much as 125 fps using the same loads. There are many things that make this possible, groove diameter of barrels vary, chambers differ, throats can be different. All these things can affect the pressure and velocity of different guns.

So use your loading Handbooks for reference and as guides. Use their starting loads to begin with when making up loads for a new rifle and work your loads up from this start. The books will be a big help and save any serious handloader a great deal of time.



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QUICK-KILL

(Continued from page 26)

remember how to fire when it counts."

There are several reasons for starting a new shooter on aerial targets and all of them are psychological. His success is always surprising, and it dramatizes natural shooting ability. This success builds confidence and enthusiasm.

When a soldier is truly confident of his ability to hit aerial targets he takes his BB gun and moves on to ground targets. This, of course, is the object of the exercise. The procedure is not much different. The shooter carries the weapon low across his body before he locks-in to the Quick Kill position. Shooting at a ground target, however, he looks at the bottom rather than the top edge as he did with the metal ball and disk thrown in the air. This compensates for his natural tendency to shoot too high because he overestimates distance, tries to aim, or tries to line up the muzzle with the target. The instructor makes the shooter jab at the target when he brings his rifle into position but he stresses smoothness and rhythm. The shooter is not allowed to wave or swing the rifle. Both eyes are open and he shoots as soon as his eyes are on target.

The ground target for the BB gun is a four-inch high, scaled-down version of the familiar man-sized silhouette. At 15 feet it simulates the larger target at 75 yards. Several of them are hinged on a length of two-by-four. Once he has the position down cold, the shooter knocks off the four-inch silhouettes with satisfying regularity. By this time he has been shooting BB's for an hour or two. Like every American soldier since Valley Forge, he begins to feel skeptical curiosity.

"Look, Sarge, fun is fun, but we're not fightin' this war with BB's."

Sarge, as always, has an answer. "Don't blow your cool, son. Right now we're going to transition you on to the M-14. You can shoot better than you thought you could. Right? You can hit a moving target. Right?"

"Yeh, with BB's," says our GI skeptic.

But he can hit with the service rifle, too, as he soon discovers. If he has never fired a service weapon before he probably will get intermediate training with a .22. This accustoms him gradually to weight, muzzle blast and recoil. Most are able to go directly to the M-14, or to the M-16.

On the firing line the soldier shoots a few rounds at normal size sil-

houettes at 15 yards. This is close but it sustains the soldier's confidence. After 10 or 20 rounds the target moves back to 25 yards, then to 35, then to 50. And he continues to score!

For training, a piece of white tape or a strip of wood or metal is fixed from the upper hand guard of the M-14 down the barrel and fastened over the front sight. This continues the "no sights" concept the soldier has become accustomed to with the BB gun. When the M-16 is used, a wooden rib is extended from rear to front. As soon as the soldier is shooting well with either of the weapons, the sight covers are removed. He does not need them any more.

Several months ago, Barnes and his team demonstrated Quick Kill at Fort Ord, California's big infantry training center near Monterey. Present were members of the Fort Ord training staff, civilians from nearby communities, and representatives of local newspapers. Barnes' host was Major General R. G. Fergusson, then commander of the center.

"Amazing," said Fergusson after he had tried Quick Kill himself.

Another veteran campaigner at the demonstration was Major General George L. Mabry, Jr., commander of the West Coast center of the Combat Development Command. Mabry, a Congressional Medal of Honor winner in World War II, was equally impressed.

Participating in the Fort Ord demonstration was Lt. Colonel Peter J. Fleming, British army liaison officer at the Fort Benning infantry school. Fleming told of Britain's fight with Red guerrillas in Malaya and Borneo, and likened that successful struggle to the present conflict in Viet Nam. He was as sold on the Fort Benning system as were his American counterparts. Before the demonstration Fleming called on two of the Fort Benning instructors, armed with M-14 service rifles, and grouped them close together in what he called a "British square." He threw a cabbage high in the air. At the top of the throw, at about 20 feet, the two soldiers fired.

"Quick cole slaw," said the Englishman.

The cabbage was shredded. Another instructor did the same thing to a cigar butt.

The fight against Viet Cong guerrillas and North Vietnamese regulars emphasizes independent actions by small units. Squads live or die by their ability to hit the enemy close-in, and survive. If a soldier can shoot fast and straight, he has a better chance to get home. More and more Americans are making it because they have

learned to shoot—fast and straight.

The hard-bitten regular and the raw recruit soon find that learning to shoot with a BB gun is no kid's game. The pay-off is in the rice paddies and rain forests of the Big V. 

QUICK-SKILL

(Continued from page 27)

is Look! Don't aim, don't point, but look. You must learn to concentrate for a given instant of time from a tenth of a second to a full second on a single focal point of your target. Initially, your focal point will be the top edge of the disc. A moment of thought will show why. Your line of sight is two inches or so above the gun barrel and parallel to it. If you look at the top edge, then your BB should hit the target lower; that is, right in the middle.

The really proficient Quick Skill shooter can learn to focus on a specific point on his target. For example, the army, when teaching Quick Kill to a new group, puts on a startling demonstration of Quick Kill prowess. The target tosser throws a washer with a piece of tissue paper stuffed in the hole and the shooter plinks it out.

After shooting for a while, you begin to see your BB—a low cost tracer. If you can't see the BB, your coach probably can. If you're shooting low, it indicates you aren't looking at the top edge. If you shoot to one side, your line of sight is not parallel with the gun barrel. The gun may not be stock welded to your jaw. Shooting high indicates the gunner is looking too far over the target or is pointing the gun. If you look at the top edge of the disc, there is no way to shoot over it without blotting out the target with the gun barrel. Your left hand, if you are right handed, should be far out on the gun stock because it carries the gun to the target.

We got ready to start our Quick Skill course. First I made a trip to our local trap range and shot at 25 birds. I broke 13—not the kind of shooting to gladden the collective heart of the Missouri State Trapshooter's Association. Grand National sponsors weren't likely to besiege my home, waving contracts, promising everything if only I'd compete at Vandalia, Ohio.

We moved into the Quick Skill course using Daisy's complete kit. These kits should be at your sporting goods dealer now or soon. If not, you'd best write directly to Daisy, Rogers, Arkansas.

It took practically no time to begin hitting the big aluminum discs regular-

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ily. Within two hours of practice, we were hitting seven and eight of every 10 fired at. I wanted to get some pictures for this article, so Bill and I headed for a friendly farmer's bean stubble field. Almost as an afterthought, I took along a little single shot .410 and a box of No. 4 shot shells. With its long barrel and tight choke it's like shooting a rifle. "If I can hit with this thing," I told Bill, "I should be able to hit anything with a looser choke."

We snapped pictures for a while and then I said, "Bill, toss a few clay birds and let's see what I can do with the .410."

The first bird went out and I cracked it into about five pieces. I realized I had nicked it and also that I had sot at it with the old familiar technique—fire and hope for the best.

"Pull again," I said. The bird flew out. Top edge, I told myself. There was that instant of total concentration and I jerked the round off. The bird

absolutely disappeared, blown to powder by the tight pattern.

I hit three, missed one, and then called it a day. There was no doubt my instinct shooting had done its work. I now was shooting at *something*. I had that feeling of *knowing* that I was going to hit that bird. For kicks, we threw a few birds and shot at them with the BB gun—not at the same range, of course, but fairly far out. We were even able to hit them with fair consistency. I mean to tell you, it's a marvelous feeling to see those little clay discs fall apart!

Bill and I still are working on our instinct shooting. We keep refining it down. Some day, I want to be able to dust Lifesavers or shoot the tissue paper out of a washer. Some day, I also want to beat the national average of three doves for every five shots. I'm willing to bet the first goal will help me reach the second. At the very least, it'll be a heck of a lot of fun trying.

AUTOLOADING RIFLES

(Continued from page 31)

figured in the most of these exchanges of lead.

In those days I rode with a partner across the south end of New Mexico to the Arizona line. This was all desert country and in the spring of the year the dust storms were those to rival the Sahara. The .351 was extremely sensitive to the desert sand, and had to be kept scrupulously clean. I shot many jackrabbits with the 180-grain softpoint bullet (1850 fps MV) and most of the time the jack would fall over, kick for 10 seconds, and get up and race off. On coyotes it was equally ineffectual. It was highly inaccurate, good for about a 5-inch ring at 75 yards. But as a fighting arm at ranges under 30 yards, a common distance for nighttime gun battles along the Tex-Mex frontier, it was quite effective.

John Dillinger, who cut quite a swath around Chicago and environs, favored the .351. He had several modified to fire full-auto. That is with one pull of the trigger you would get bursts. He got tripped up in Tucson, Arizona, and the local lawmen shipped him off to an Indiana jail, keeping his altered .351 cutters. George Parker, lifelong pardner of mine and a Border Patrolman at the time, told me you could not hit anything with the rifles. The first round out of the burst struck the mark and then the muzzle climbed so rapidly the remaining shots went high.

Frank Hamer, the Texas Ranger

who killed Bonnie and Clyde, would have no part of the .351. He thought it was not hot enough. It would not penetrate an auto from the rear at distances of 100 yards. He packed a Model 8 Remington in .35 caliber.

In 1936, John Garand had ready the first successful gas-operated rifle. It was dubbed the M-1 by the military and was manufactured from 1936 until 17 May, 1957. The last rifle carried the serial number 6,084,405. This weapon represented a breakthrough in the design of autoloaders. It functioned on gas and was short-recoil operated. The breechbolt locked up with 2 lugs at the front end and the gun was chambered for one of the best cartridges, the .30-06.

As a result of the success of the M-1, such rifles as the Remington .30-06 autoloader and the Winchester .308 Model 100 came along, as well as the military successor, the M-14. Here more lately the Browning "BAR" '06 sporting rifle has appeared.

The M-1 rifle fought the hardest wars in history. It established a reputation for reliability that was further enhanced during the Korean War. Selfloaders, the sporting writers sometimes like to say, are not very accurate. After the war the sharks at the marksmanship training units in the army, the Air Force and the Marines, refitted the rifle so that it won more matches at the Nationals than the old Springfield had ever accounted for. It is likewise held that automatics are

given to freezing up in the subzero temperatures of the Arctic but the M-1 put the lie to that canard.

The other M-1 is the carbine. Marsh Williams, an inventor working for Winchester, developed what is known as the short-stroke gas piston. The principle is one in which the gas is syphoned off the barrel quite close to the breech and impinges on a piston which moves no more than 1/10 inch. The movement of the piston is imparted to an operating rod connected to the breechbolt. The force is sufficient to unlatch the bolt and send it rearward. This piston represented a sizeable advancement over the system developed by John Garand for the M-1 rifle. It is the piston arrangement found in all our second generation sporting autoloaders.

The M-1 carbine was visualized by General Courtney Hodges who, in 1940, determined that a carbine was to replace the Model 1911 pistol. Commercial rifle makers were made aware of the army need for a light handy carbine. Springfield Armory was also ordered to produce such an arm. Only Winchester evidenced any interest. During the trials, held 15 Sept., 1941, Winchester came along with the little gun which was later to be known as the M-1 carbine. Interestingly the .30 caliber round for this 5-lb. shorty is the venerable .32 Self-Loading scaled down.

The combat failures of the carbine had utterly no effect on the civilian shooting public. Something about the peewee—with its 36" length, 5 pounds of weight, the 15-shot magazine and no recoil—makes it more popular than sex on Saturday night. This appeal extends not only to the old as-issued M-1 but maybe even more so to the copies, made up in .30 Carbine caliber and .22 Long Rifle. Needless to say these latter are straight blow-back operated and have no gas piston arrangement. Melvin Johnson whipped up a special caliber, the 5.7 mm, a necked down .30, and several other calibers are around.

The rifle that followed the M-1 militarily was the M-14. It took Ordnance 16 years to come along with this one. It is essentially an improved M-1. It has a 20-shot magazine, can be fired semi-auto or full auto, weighs 10 pounds, and is more reliable than its predecessor. The gas system is pretty much patterned after the original. It has an improved piston which is designed to be self-cleaning. The M-14 is chambered for the 7.62 mm (.308) cartridge, an '06 reduced in length by 1/2-inch. Ballistics are not as good as the .30-06, although plenty potent enough for war. The M-14 was manufactured from 1958 until 1963 and a

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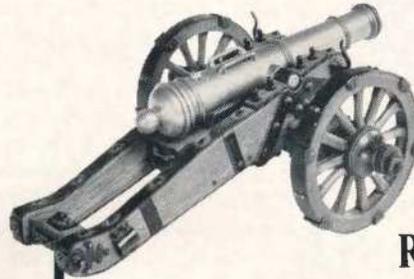
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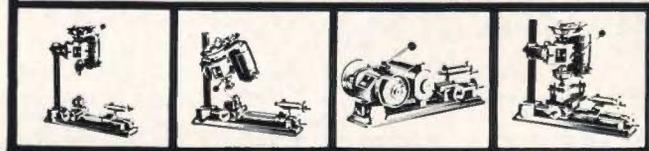
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In 1955, Remington 'broke' a brand new automatic rifle, in .30-06 caliber. First dubbed the Model 740, and then over a few years and after some minor changes it was, and is, the Model 742. Gas functioned, with a weight of 7½ pounds, 22-inch barrel, sleek, streamlined and handsome, this rifle profits by the forerunners in its ancestry. Wayne Leek, the remarkable Remington guns designer, looked at the M-1 rifle, the M-1 carbine and the second generation M-14, and he build a better firearm than any of these.

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First announced in the '06 the Model 742 has since been chambered for the .308, .280 and the 6 mm Remington. There are two guns, a rifle with 22" barrel and a carbine with 18½" tube.

Since 1955 I have owned a series of these rifles. I have hunted the gun a great deal and have fired thousands of shots through the various models. It is not a very accurate shooting iron, with groups at 100 yards running 2.50 to 3.25 inches. And, it is quite pernickity about reloads. Better to stick with factory loadings; and my better accuracy has always been with 180-gr bullets. On the score of reliability it is tops. The rifle demands no particular care—it always shoots, always functions, and is a game killer second to none.

Not to be outdone by Remington, Winchester announced a high-powered autoloader in 1960. This is the Model 100. It is a gas gun, with a gas system a great deal like the M-14 military rifle. It is a good system and in the M100 is extremely reliable. The rifle was a second generation piece. The forerunner was the Model 88, a lever action, about as slick-looking a powder-burner as the Winchester has ever produced. The Model 100 is a sheer joy to gaze upon! There are no shoulders, no angle, no bumps, no projections to mar the thoroughbred line of this baby! The rifle loads with a separate box magazine and this has been designed not to extend below the

(Continued on page 69)

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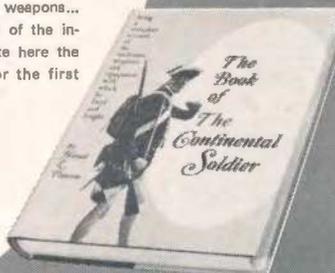
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(Continued from page 66)

belly line. The rifle was first announced in the popular .308 caliber and later has been chambered for the .243 and the .284 cartridges. It is a light, handy and exceedingly useable sort of self-shuffle model. It weighs only 7¼ pounds and has a 22" barrel. The stock is one-piece and this is a good thing. Accuracy from the Model 100 in .308 caliber is among the best of any of the current crop of automatics. Groups will run around 2.50" at 100 yards, 10 shots.

The trigger pull on the 100 is invariably bad. The same is true of the Model 88, the forerunner, and efforts to improve them are difficult to achieve. Both rifles are essentially woods rifles and for snap shooting where time is of the essence the pull should be gilt-edged. The Model 100 has never been as popular as it deserves. Why it has not caught on, whereas the Remington 742 auto is the most popular of all Remington centerfire highpowers, is impossible of explanation. It might be argued that the receiver on the Winchester should have been lengthened sufficiently to accept the '06 cartridge. Unquestionably this is a factor. The Remington in its beginning was chambered for the most popular load and this contributed immeasurably to its prompt acceptance.

While the two front runners were making ready their automatics, others were not still. Bill Ruger designed a gas-operated auto for the .44 Magnum cartridge. Superficially, the rifle bears resemblance to the highly popular M-1 carbine, and is incidentally, a whale of a lot better rifle for the hunting fields.

Two years ago, and in line with the increasingly strong swing to semi-auto highpowers, Harrington & Richardson commenced the sales of a brand new gas-working rifle made by the West German arms firm of Heckler & Koch. This rifle is chambered for the .308 and the .243 cartridges.

Known as the Model 360 Ultra Automatic the latest H&R offering is graced with lines quite as smooth-flowing and stylish as that of the Winchester 100. The rifle weighs about 7½ pounds with 22" barrel, and has a 3-shot separate-loaded box magazine. Interestingly, the breechbolt locks up by the same system as the old Savage 99 lever action. It tips up at back and is lodged against a firm shoulder in the roof of the receiver. The bolt has a counter-sunk head. The M360 is as yet too new to be properly evaluated in the game fields. How it will perform only time will tell.

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into the lists with a new self-loader known as the "BAR". This newcomer, like all the recent contingent, works on gas. The stock is two piece, there is a box magazine, holding 4 cartridges, which can be loaded on a swinging floorplate or can be completely removed and recharged separately. A 22" barrel is attached to a square box-like receiver, reminiscent of that venerable forebearer the old Remington Model 8 autoloader.

Like all automatics it is just so-so on the score of accuracy but also like all the new crop of self-gooseed models it is reliability personified. It digests all the '06 loadings from the worthless

110-gr. to the 220-gr. and does it without a bobble. Too, like all the new order of do-it-yourself guns it is remarkably soft on recoil. This is a most pleasant feature of gas-functioned rifles.

As of this writing, the sales of auto-loading rifles have not yet reached the numbers of the bolt action breed. But we have half a million men in Viet Nam, and a growing number in home-based and European military units, and each of the men is becoming acquainted with self-loading rifles. It will be interesting to see what influence this has on the market.



NRA SHOW—NONTE

(Continued from page 19)

up, stick out your hand and say "howdy." In a manner of speaking, you are their "public" and they aren't likely to forget it.

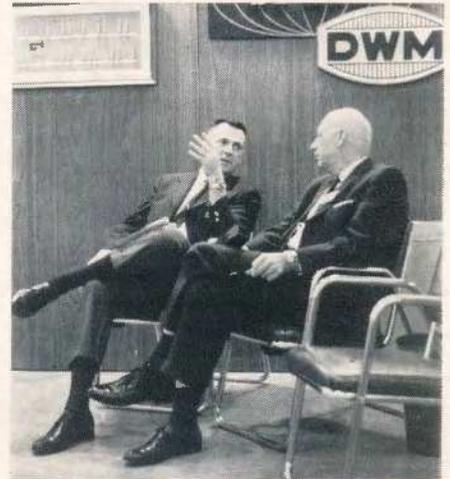
The attractions, however, don't end at the exhibit hall. Other events are going on constantly. For example, on Sunday this year, internationally-known Wally Taber showed a program of his superb safari films in the auditorium. Taber has done this at NRA shows for a long time now and over the years his films have become favorites of many a convention-goer. There are meetings open to members, get-acquainted luncheons, state association meetings, and much more—all capped by the big NRA Reception and Members Banquet on Wednesday evening. Those who feel inclined to take their spouses along will be pleased to know there are special luncheons and programs for the ladies throughout the convention—so, if you can't get away from home alone, bring her along and turn her loose.

Following closing of the exhibit hall there is a "tour day" of the more interesting areas of the city in which the convention is being held. Historic Boston provided much along these lines. Since the convention is always held in one of our historic larger cities, this in itself can often be worth the price of the trip.

Wandering into a display area not devoted to guns, we ran into a half hidden showcase whose contents tells an interesting tale of today. Lying in the case was an assortment of gun parts produced by the most modern investment casting methods. Included were a complete double shotgun action body and a receiver for a modern solid-frame, double-action revolver. Both fresh out of the mold and looking as clean and smooth as if they

were ready for assembly. All they appeared to lack was screw and pin holes—and even some of those can be cast in.

This points up a trend that cannot but increase. Such precision castings will see ever greater use in guns, no matter how vehemently they are condemned by traditionalist proponents of machined forgings. Where significant quantities are involved, the cast part can be produced both quicker



Ray Speer talks business

and cheaper—and *without* any sacrifice in strength or quality of finish and appearance. The end result will be *better guns cheaper*, and I'm convinced that's what we all really want.

Another trend we noticed was in prices. Some standard models are up several dollars—as witness the Marlin M336 series rifles, up from \$87.95 last year to \$92.95. This type of increase is obvious to all of us, and we know it is forced, at least to some degree, on the manufacturers by spiraling labor and material costs. In case that seems like too much of a jump over a single

year, please keep in mind that a single dollar added to the manufacturer's cost multiplies four or five times at retail level. So, if you see an extra five bucks tacked on your favorite smoke pole this year, just remember that probably represents no more than \$1.00-\$1.50 extra production cost.

Other forms of price increases become evident when you examine new models carefully. For example, the Remington M600 line has been discontinued and replaced by the M660 series shown at the convention. While we like the 660 better than its predecessor, it costs \$20.00 more. Makes it harder for the fellow who aspires to own just one good rifle at nominal cost. Now he has to save another double sawbuck out of the grocery money before taking the plunge. The same thing has happened in all lines—we aren't just singling out Marlin and Remington. For example, Winchester introduced at the show a full-stocked Model 70 carbine at \$225.00 without sights—\$67.00 more than the standard M70—sharing all parts but its stock with existing Winchester models. More and more guns and ammunition are being sold than ever before—and with very rare exceptions, they are costing more.

Of course, hundreds of other new, and thousands of old items were displayed for the thousands of NRA members attending. We didn't see a single person attending who didn't feel the trip was well worth while—and seeing historic Boston was an added bonus. About the same time next year we'll be in Washington, so why not plan to see us there?—Geo. Nonte

WASHINGTON

(Continued from page 17)

unconstitutional.

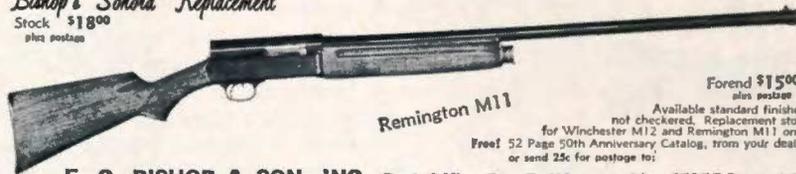
Other provisions of the anti-gun bill are equally discriminatory against shooting sportsmen. These include the statement of the bill's purpose and findings. This will direct the Treasury Department in enforcing the new law. "The ease with which any person can acquire (handgun) . . . is a significant factor in the prevalence of lawlessness and violent crime in the United States;

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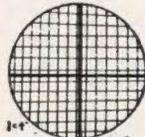
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dents of the state in which the licensees' place of business are located, has tended to make ineffective the laws, regulations and ordinances in the several States and local jurisdictions regarding such firearms;

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These are some of the "guide lines" Congress is laying down to direct the Treasury Department in setting regu-

"businessmen" they could not get a federal license: a federal license shall not be issued if "by reason of his business experience, financial standing, or trade connections (he is) not likely to commence business operations during the term of the annual license applied for or to maintain operations in compliance with this chapter.

"The applicant does not have, or does not intend to have or to maintain in a state or possession, business premises for the conduct of the business."

Perhaps the biggest insult of all to the sportsman, the target shooter and the collector is that his activity will be the only one regulated by the Fed-

This anti-gun legislation is designed

to run gun trading at shows into oblivion.

lations. Not only will it become unlawful to ship or receive a handgun, other than for repair; it will also be unlawful to purchase a handgun out of the purchaser's state of residence.

Just who is a "resident" will be left up to the Federal Government to determine. In most states people must be subject to paying taxes in order to be a resident. Thus, if you pay taxes in a state other than the one in which you live, you would not be a resident. The Federal lawmakers (Senators and Congressmen in Washington) and their employees will be the best example of this hardship. What about the people who have vacation homes across state lines? What about the people who move into another state, how long before they become a resident? Clearly people could not ship or receive their handguns along with the rest of their personal belongings!

What about gun shows? The legislation is designed to run gun trading into oblivion. Those wanting to trade would have to get a license for each show. Yet, since they would not be

eral Criminal Code. This bill will replace the existing Federal Firearms Act which has regulated the shooting industry since 1934. It not only tells the businessman what he may and may not do, it tells the shooter the very same thing.

When the anti-gun measure reached the Senate floor, not a word was said about the previous agreement whereby the measure was referred to Judiciary. Any member of the Commerce Committee could have raised strong objection. However, it was up to the sportsman's friend, Senator Warren G. Magnuson (D-Wash), as chairman of the Commerce Committee, to really demand that the agreement be kept. Being chairman, there is not a Senator who does not have legislation under Magnuson's control.

Senator Magnuson may not have convinced the hard core anti-gunners to go along with his objection, but all moderates would have been hard pressed to refuse. Yet Magnuson did not raise his voice.

GUNS AND THE LAW

(Continued from page 33)

Placed in its proper perspective it is a social and national condition brought about, not by an inanimate object such as a firearm, but rather by the nature of the permissiveness of our society. The human animal only uses the firearm for illegitimate purposes in the same manner as a bank robber uses a car for a getaway. There are many other similar historical parallels, including that of the control of dangerous drugs that are used for humane and medicinal purposes versus

those used illegally by criminals, etc.

I think it is time that the people in the gun business, whether they are owners, dealers, or whatever, not only make sure they can keep their guns but also do what they can to help their local police. In some areas of this country, citizens are organizing, with police cooperation, to help when called upon. Recently, the Sheriff of Cook County (Ill.), over the loud objections of the liberals, and city hall, tried to recruit 1,000 men for special

training to help his department in future riot situations. The Sheriff is a pretty realistic customer, an ex-F.B.I. man, who is cognizant of a sticky situation when he sees it. He is also aware, as are all of the Chicago police and federal security agencies, of the potential dynamite, political and otherwise, that could explode in Chicago this summer during the Democratic National Convention.

Some time ago, on a national TV program, I was asked what I thought of the potential violent riot situation for the coming summer, and beyond. I commented that it would be a good idea to get the mayor, city hall and the politicians out of the riot control business. The same applies to gun control laws. Major riots that have occurred in our metropolitan areas occurred principally because the police were not allowed, by the political fathers, to go in—in force—and quell the triggering incidents or the center of disturbance *when it happened*. The mayor, the so-called leaders, and all of the other timid types, first had to have a try at reasoning with the criminal and violent elements. When this was tried and failed, the situation had gotten so far beyond control, due to restraints on the police, that it was then necessary to call in the National Guard and other military elements to bring back a semblance of law and order in the areas concerned. You are not going to "reason" weapons away from criminals and rioters. Police and the National Guard are going to have to physically take them away, and maybe even backed by armed citizenry.

I recently heard of a new home-grown organization that seems to be expanding by leaps and bounds and one that has national aspirations. It is called the Association to Preserve Our Right to Bear Arms, Inc. Interestingly enough, a number of the police chiefs in this area are speaking in its behalf. We don't have any ghettos out here but lots of citizens who like to shoot, hunt, and have fresh meat in the locker. I think the Oregon politicians, including some doves in Congress, had better heed the admonition of this group to "count the gun racks."

Well, I've had my say, and hope that I'll be able to have time for articles again, soon.

Col. Rex Applegate



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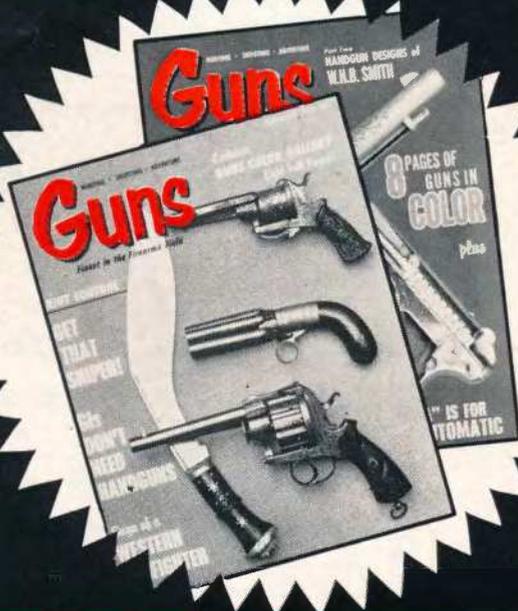
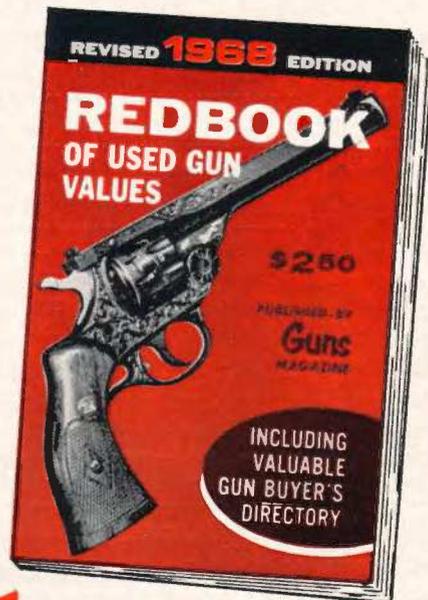
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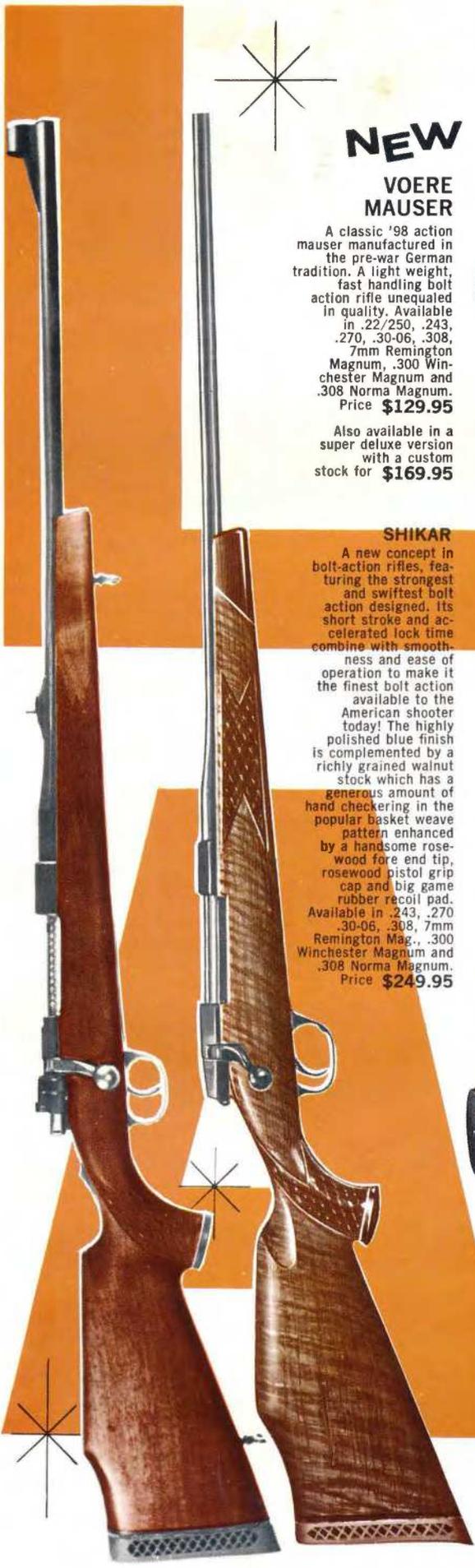
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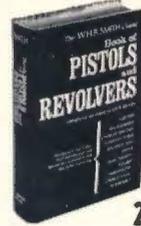
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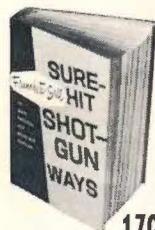
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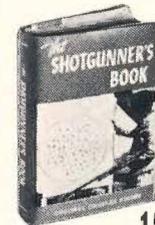
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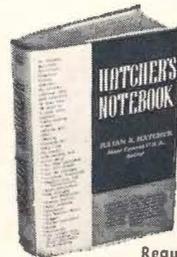
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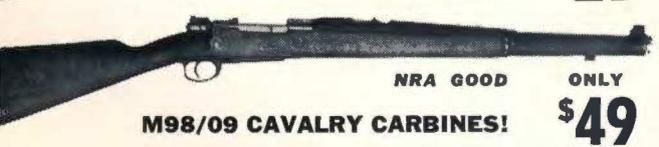
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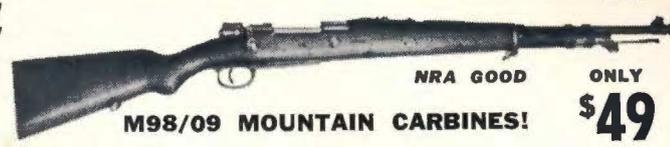
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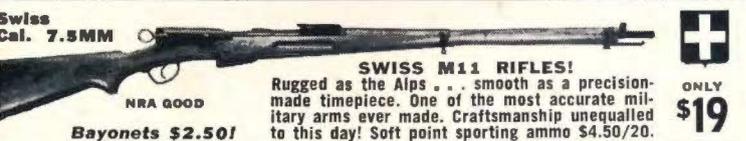
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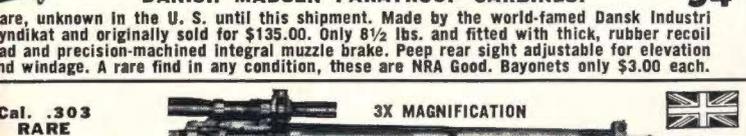
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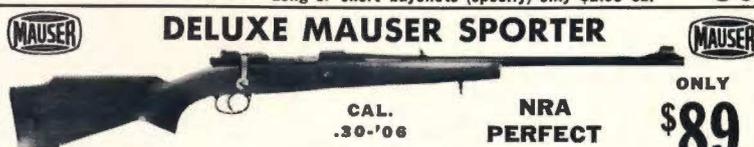
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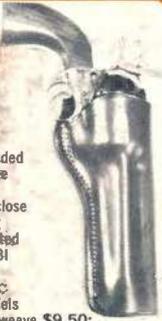
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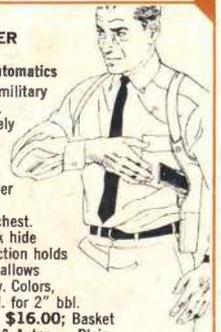
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