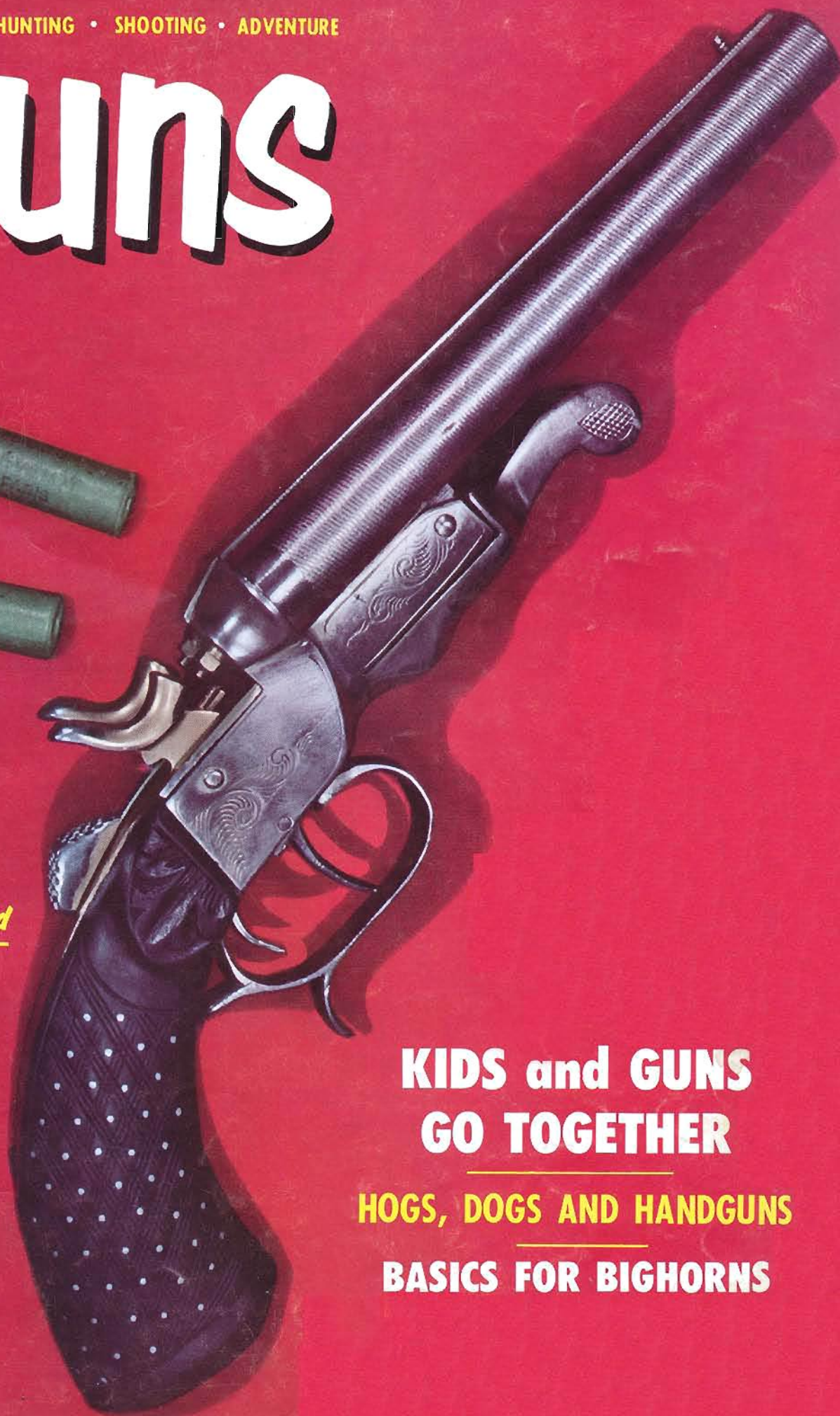


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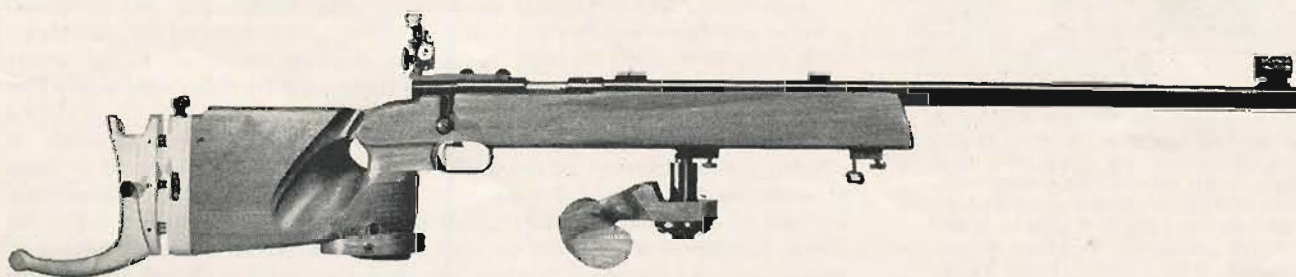
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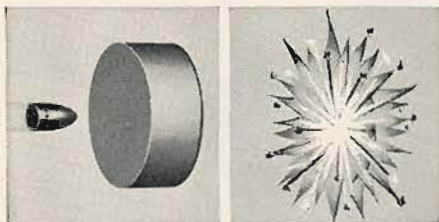
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# KNOW YOUR LAWMAKERS

Statement of the Honorable John D. Dingell, 15th District, Michigan, before the Senate Committee on Commerce, hearings on Firearms Control—S. 1975, S. 2345, Bills to amend the Federal Firearms Act.

"Mr. Chairman and members of the Committee, I am most grateful for the opportunity that has been afforded me to express my views on the subject of firearms legislation and on the efforts of this Committee to legislate against the nationwide problems resulting from mail-order firearms.

"There is a growing prejudice against firearms in many segments of our society. More excuses constantly are being found to propose legislation which denies the right to use firearms for protection, for marksmanship training for national defense, or for the recreational pleasures of shooting and hunting. The members of the Committee are well aware of the great number of firearms bills that have been introduced in Congress since the assassination of President Kennedy.

"Many laws are presented by persons who believe that the laws will prevent crime and accidental shootings. Others are advanced by individuals or groups who seek, through legislation, greater assistance in the arrest and conviction of lawbreakers. Some are advocated by those who would like to see America a disarmed and weakened nation.

"Present-day firearms legislation is pointed in the wrong direction. It disarms the law-abiding citizen while it fails miserably in its avowed purpose of disarming the criminal. It is aimed at outlawing the gun, which is incapable by itself of doing evil, rather than at punishing criminals who use a gun for illegal purposes. No legislation can prevent gangsters from securing and using guns, but proper legislation can severely penalize illegal use of guns and can send to prison for long periods of time criminals caught doing so.

"Despite the painful history of other countries, there are those who still contend that some form of national or state firearms registration law should be passed in the United States to aid law enforcement. Others advocate laws designed purely for the convenience of law enforcement officers or for the purpose of circumventing due process of law in order to obtain convictions more easily. The desire to see our laws adequately enforced is never justification for any law which can make a prudent, law-abiding citizen an unwitting violator, or infringe his right against illegal search and seizure.

"In my experience as a prosecuting attorney and as a maker of laws, I realize the need for regulations in order to maintain an orderly society. I do not propose that this Committee adopt any 'head in the sand' policy in hopes that the mail-order gun problem will go away. But please bear in mind that many law-abiding citizens utilize this legitimate means of purchasing firearms and the firearms so purchased are used in the peaceful enjoyment of the sport of target shooting and hunting. If the entire mail-order gun industry is so severely regulated as to ultimately cause its demise, in an effort to 'weed out' the unscrupulous dealers or to curtail the nefarious deeds of people after they have purchased firearms, you will have done nothing more than cured the symptom, but killed the patient.

"Gentlemen, you have in your hands the power to place in motion a legislative vehicle that can arrive at only two destinations. The first destination, i.e., the eventual destruction of our right to keep and bear arms, will be reached if the vehicle is overloaded with highly-restrictive regulations geared to penalize all citizens in a shotgun approach to a solution. The second destination, i.e., the continuation of the peaceful and legitimate enjoyment of shooting activities by citizens of good repute, will be reached if the vehicle contains legislation designed to penalize criminal activities with a firearm and make more difficult the accessibility of firearms to criminals and unauthorized or unsupervised juveniles.

"The legislation that results from the studies and investigations of this Committee will be used as guidelines for future legislation on this subject in all state governing bodies throughout the land. Mr. Chairman, I know that you and your Committee will weigh carefully all factors involved in the matter of proper and sound firearms regulations. To this end, I pledge my wholehearted support and cooperation."

# Guns

FINEST IN THE FIREARMS FIELD

APRIL, 1964

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## THE COVER

The double barreled smoothbore pistol has a caliber of 14 mm, and barrels are simulated damascus; gun was made when damascus barrels were all the rage. The grips have elaborate silver inlays and gun is in near-mint condition. Photo by J. E. Robertson, Birmingham, Alabama. Camera was a 4 x 5 Speed Graphic and the illumination was by electronic flash.

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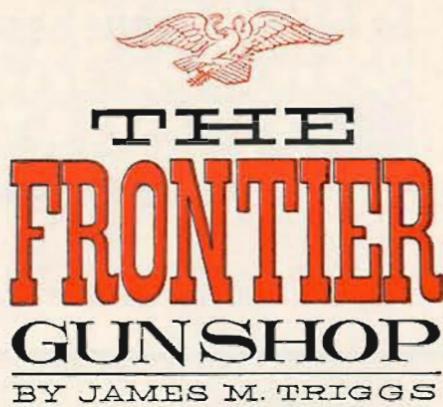
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PIONEER AMERICAN  
HANDGUNS:

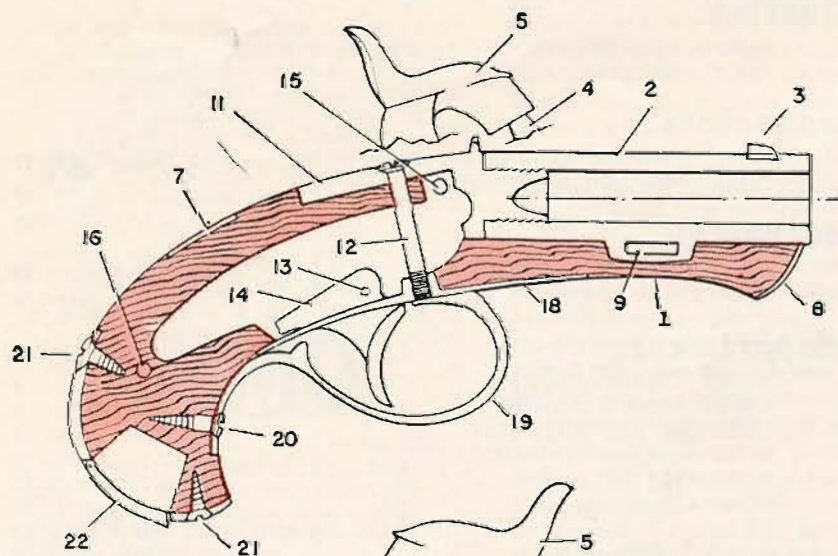
HENRY DERINGER established his arms manufacturing business in Philadelphia, Pennsylvania in 1806, producing both flintlock and percussion arms for civilian and Government sales. Soon after 1840, Deringer made a small, pocket-size percussion pistol that was to make his name an American byword.

The Deringer pocket pistols were very small, single-shot muzzle loading percussion arms with rifled iron barrels. Calibers ranged from .31 to .55, and barrel lengths were from 1½" to 6". The pistols were rugged and finely made; their compactness and reliability made them a great success in the West where they were eminently suited as easily-concealed, self-defense weapons. The smallest Deringer pistol is the model shown, made around 1855. The caliber was about .44 and the pistol was just a little over 5 inches long.

While there were numerous copies made of this design by other firms, the original Deringer pistols were stamped both on barrel and lockplate, "DERINGER, PHILA-DELA." The Deringer design was so successful that manufacturers of copies stamped their arms "DERRINGER" to capitalize on the Deringer name. The term "Derringer" has become a generic one describing almost any small, easily concealed pocket pistol.

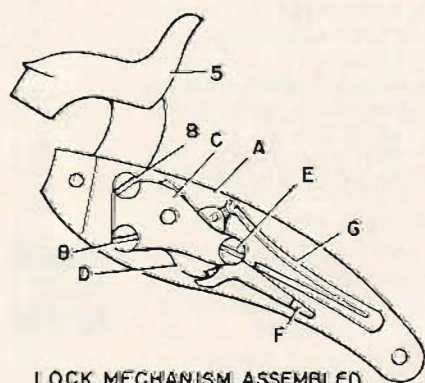
Disassembly of the Deringer pistol is as follows: Half cock the hammer (5) and remove sideplate screw (15) from left of stock (1). Remove lock plate screw (16) and lift lock out of stock. Unscrew tang screw (12), drive wedge (9) out sideways and lift barrel (2) up out of stock. Remove trigger guard screw (20) and turn trigger guard (19) to unscrew from guard plate (18). Drive trigger pin (13) out and remove trigger (14). Remove buttplate screws (21) and buttplate (22) from stock. Care should be taken in removing parts, escutcheons, etc., set into stock to avoid damaging wood. The conventional back-action lock is easily disassembled after removal from stock.

## The H. Deringer Pocket Pistol



### Longitudinal Section

(LOCK OMITTED)



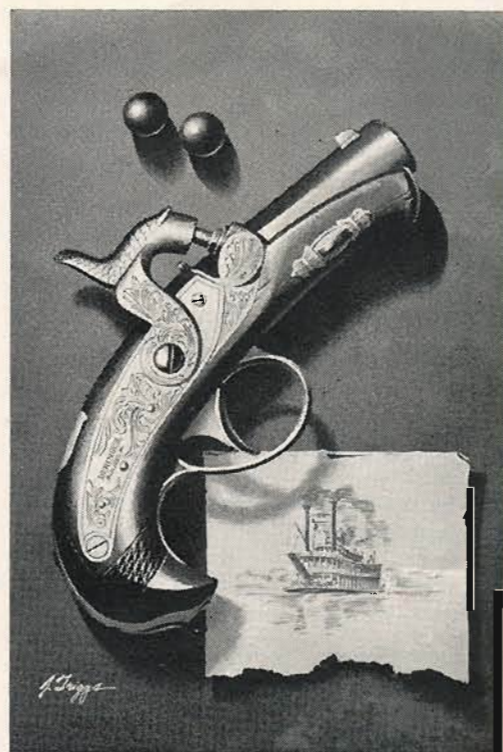
LOCK MECHANISM ASSEMBLED

### PARTS LIST

- |                             |                                   |                               |
|-----------------------------|-----------------------------------|-------------------------------|
| 1. Stock                    | 8. Stock tip                      | 15. Side plate screw          |
| 2. Barrel                   | 9. Wedge                          | 16. Lock plate screw          |
| 3. Front sight              | 10. Wedge escutcheons (not shown) | 17. Side plate (not shown)    |
| 4. Nipple                   | 11. Breech plug & tang            | 18. Trigger guard plate       |
| 5. Hammer                   | 12. Tang screw                    | 19. Trigger guard             |
| 6. Hammer screw (not shown) | 13. Trigger pin                   | 20. Trigger guard screw       |
| 7. Escutcheon               | 14. Trigger                       | 21. Buttplate screws          |
|                             |                                   | 22. Buttplate (with trapdoor) |

### Deringer Back-Action Lock Mechanism

- |                                      |
|--------------------------------------|
| A. Lockplate                         |
| B. Bridle Screws                     |
| C. Bridle                            |
| D. Tumbler (with mainspring stirrup) |
| E. Sear screw                        |
| F. Sear                              |
| G. Mainspring                        |





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# QUESTIONS and ANSWERS

By GRAHAM BURNSIDE

Questions submitted must carry a Shooters Club of America number or must be accompanied by one dollar. Questions lacking either number or dollar will be returned. If you want a personal answer, enclose a stamped, self-addressed envelope.

## Sight Problem

I have had trouble sighting in my 1903 A3 Springfield. First I had only a 100 yard range available and the following military ammo: 150 grain M2; 173 grain Match; and 160 grain A.P. Using the 173 grain Match ammo, and a sight setting of 100 yards, I got a fair four inch group, but six inches low. The 160 grain A.P. shot five inches low.

I then moved the rear sight up to 200 yards and still shot about three inches low. I realize that different bullet weights and types will group differently, but I had thought that with a setting of 225 yards I would be on at 25 yards; three inches over at 100 yards and on again at 225 yards. Actually, I'd like to get on at about 150 yards, as most of our local chucks are shot at about this range.

I can't figure out this A3 sight—I think it's goofed up. Could you recommend an inexpensive receiver peep sight for this rifle that wouldn't be hard to mount?

Jack J. Reese  
Princeton, Indiana

Since you are having the problems that you are—and from this end it sounds as though something is wrong—I strongly suggest that you have a Lyman 57 micrometer sight mounted on that Springfield. The Lyman 57 is not expensive—retailing at \$8.50. I have two of these sights and find them more than satisfactory.—G.B.

## Shotgun Disassembly

I need detailed instructions for assembly and disassembly of the Winchester Model 42 shotgun. In particular, the removal of the bolt, trigger, sear, hammer and other parts from the receiver.

Is there anything you can do to help me? Can you refer me to a source of this information?

Bruce S. Farquhar  
Wilmington, Delaware

Your best source for this information is Bob Brownell's book, "Encyclopedia of Modern Firearms." It is available through the Shooters Club of America, and your membership entitles you to a discount.—G.B.

## DWM Luger

If possible, I would like any information you could give me on the following pistol, including its value.

It is a Luger, caliber 9 mm, four inch barrel. The receiver is stamped 1918 on top and 1893 on the side. The barrel also has the 1893 stamp plus the number 884. The front toggle is stamped 93 DWM. The frame, near the safety is marked Gesichert. The bore is in good condition, and the gun has been reblued.

M. D. Meier  
N. Hollywood, Calif.

Your Luger is the 1914 D.W.M. military model which is found with dates running from 1914 through 1918. It is a very common Luger and Luger collectors usually have a specimen in pristine original condition.

The "1893" is a serial number and not a date.

Being reblued and with not all matching numbers it is worth only as much as a functional Luger is worth.—G.B.

## Jungle Carbine

I would like to have your opinion on the M-95 Mannlicher Jungle Carbine in .303 British caliber. Is it a good rifle for hunting as issued? What is the barrel length with and without the compensator?

Bruce Bennecoff  
Mays Landing, N.J.

I was unaware that there was a Model 1895 Mannlicher "Jungle Carbine" in .303 British caliber.

The British short magazine Lee-Enfield (SMLE) Jungle Carbine in .303 British is a practical hunting arm.

It is listed as Rifle No. 5 Mk. I and has a barrel length of 18.7 inches. I do not know if this length includes the flash-hider or not.—G.B.

## Gewehr 43

I would like to have some information on a rifle that I have. It is a World War II Mauser semi-automatic rifle bearing the stamping G-43, serial 4895D. It is in good condition, and seems to be in excellent working order.

William Morgan  
Ontario, Canada

The Gewehr 43, German semi-auto rifle is an outgrowth of the earlier Gewehr 41. The G-43 almost always displays crude workmanship but the design was good.

In this area G-43 arms, in excellent condition, are sold for usually about \$50 to \$60 each. From what I can tell there is no heavy demand for the rifle.—G.B.

## Varmint Rifle

I am interested in a low priced varmint rifle for shooting at about 120 yards. The two rifles I have thought of are the Savage 219 single shot and the Harrington & Richardson "Topper" in .22 Remington Jet.

Are either of these two rifles capable of

good accuracy—say 1½ minutes of angle? Will these rifles stand up under extensive use, and which action would you prefer? Would the Weaver B-6 scope be satisfactory, even if these rifles were later rechambered for a heavier cartridge?

It seems to me that a repeater is useless as a varmint rifle, so a single shot seems to be the answer—what is your opinion?

David W. Hodgson  
Henderson, Ky.

Both the Savage 219 and the H & R "Topper" would give you varmint accuracy at the stated range. I would not suggest that you have either one of them rechambered. The choice of which would be best for you rests upon which one you like best by handling and viewing.

I would suggest that you do not use a "B" model scope as they do not hold their adjustment well when used on arms more powerful than the .22 Long Rifle.

I have a soft spot in my heart for the old "Topper" as I used one in 16 gauge years ago. I also had a Savage 219 rifle and found it very satisfactory.

I agree that a varmint rifle might just as well be a single shot. If you wish to do the job with a minimum amount of cash outlay you are doing very good thinking.—G.B.

### Colt Single Action

I have a single action revolver, serial number 169005, which I believe to be a Colt. The caliber is, or seems to be, .41, though .38 Specials fit fairly well. This gun is in near mint condition. It has a case hardened frame, blued cylinder and barrel, nickel plated hammer. I suspect that barrel and cylinder have been reblued. There are no markings other than the serial number. According to the Colt records, the gun was made sometime in 1897, and as black powder models were discontinued at serial #165,000, this would further indicate it to be a Colt.

Possibly the name Colt was burnished off the barrel when it was reblued, but that would be a stupid thing to do. It is also possible that the cylinder and barrel are replacements.

Could you shed any light on this gun, and give me a fair estimate of its value?

L. Bellows  
Palatine, Ill.

If your single action revolver has been reblued, I would not say it was "near mint condition." Such description should be reserved for very fine specimens in original factory condition.

I would guess that the usual Colt markings were buffed away when the revolver was cleaned prior to the rebluing. It may have been a stupid thing to do but people do stupid things to guns all the time.

I would suggest that you make a cast of the chamber and bore to determine correct caliber. If chamber is .410-.413 and bore is .394-.395, then it is .41 caliber.

A reblued single action Colt is worth about \$60 on the current market—assuming it is in excellent mechanical condition.—G.B.

### 7.65 mm Ammunition

At the present time, I am the owner of a Argentine Mauser, Model '91, in 7.65 mm. caliber. I have only one problem, ammunition. Where can I obtain some ammunition

for my carbine in soft point sporting style?

Would it be worth while to have my carbine converted to .308 Winchester? Can the action stand it?

Bruce R. Janis  
Phoenix, Arizona

If the import houses that sell those 7.65 mm (.30 cal.) Mausers cannot supply ammo, try Philip Jay Medicus, 35 East Main St., Elmsford, N.Y.

I would not recommend altering that Mauser to .308 Winchester. If you had an 1898 Mauser, I'd say go ahead.

The 1898 Mauser can be used for the bulk of our factory ammo that will normally feed through the '98 action. Any Mauser earlier than the 1898 model is a poor bet for any conversion. Those earlier actions were lacking in strength, both as to design and the steels used.—G.B.

### Colt Cartridges

Is there any difference between the original .45 Colt cartridge and the 1909 type of .45 Colt cartridge? If there is a difference, which cartridge is it that is now being manufactured commercially? If both types are being manufactured commercially, is it safe to shoot one of the cartridges in guns chambered for the other?

G. Rodney Shewchuk  
Alberta, Canada

There is a difference between the original .45 Colt cartridge and the .45 Colt army round model of 1909.

The 1909 cartridge has a larger rim, and if this round is used in a .45 single action Colt, only every other chamber of the cylinder can be loaded.

Otherwise the cartridges are identical.—G.B.

### Rare Winchester?

I have a Winchester Model 94, caliber .38-55, serial number 923736. The rifle is in perfect working condition, and I would like to know its approximate age and value.

Randall Odell  
Riverdale, New York

The Winchester organization can tell you when that particular rifle was shipped from the factory.

If I knew the details of the condition, I could give you an evaluation. An 1894 rifle with all of the original finish recently sold for about \$150. One with no original blue, but in good tight condition, is worth about \$40. Yours fits somewhere in between, but I'm not sure just where.—G.B.

### Peruvian Mauser

I recently purchased a Model 1909 Peruvian Mauser, caliber 7.65 mm. I am considering having it restocked, the barrel cut to 26 inches, and, in general, having a custom rifle made out of it.

Before I go putting money into it, I would like some information as to the suitability of this caliber for hunting, and what type of bullets are available for reloading.

James J. Traynor  
Tacoma, Wash.

Your Peruvian Mauser would make an excellent sporter. I would suggest that you shorten the barrel to 24 inches or less—but this is a matter of personal choice.

The 7.65 Mauser cartridge is a good hunter (Continued on page 58)



The issue: There WILL be legislation involving firearms. The question: WILL IT BE REASONABLE AND REALISTIC, OR WILL IT PRIMARILY INFRINGE UPON HONEST CITIZENS' CONSTITUTIONAL RIGHT TO BEAR ARMS?

REDFIELD GUN SIGHT CO. is NOT opposed to sane, sensible gun legislation. However, certain bad laws, prompted by a lack of understanding, might be introduced and enacted. We urge the sportsmen of America to unite in an effort to prevent the passage of such laws.

We are legally and morally right in opposing bad gun legislation through the Second Amendment of the Constitution. But, we must believe in our cause; then, we must take action.

What action? What strategy? 1. Let's prevent passage of laws which would involve the mass registration of privately-owned firearms at any level of government, now or ever. 2. Let's prevent the intrusion of owners' fees and licenses that would limit a decent citizen's constitutional right to purchase and possess firearms. 3. With reason and open-mindedness, let's listen to the well-intentioned sponsors of gun legislation—but be on the alert for provisions which would (a) disarm the responsible citizen, or (b) try to legislate morality. 4. Let's get answers to two questions:

A. Will the proposed legislation prevent firearms from falling into the hands of the irresponsible...particularly the criminal, or the person with criminal intent?

B. In proposed registration or licensing programs, what will assure us that confiscation will not eventually follow—which has been the historical result in all such programs?

United, concerted action is required. The National Rifle Association, and other responsible citizens' groups need your whole-hearted and enthusiastic support.

If you are not already a member of the National Rifle Association,\* we urge you to join immediately. As a responsible citizen-sportsman, YOU can help insure the rightful passage of sane, sensible gun legislation and prevent bad gun legislation which not only infringes, but is dangerous!

### REDFIELD GUN SIGHT CO.

1315 So. Clarkson, Denver, Colo. 80210



\*Membership fee in NRA is \$5.00. Send your application to: National Rifle Association, 1600 Rhode Island Avenue, NW, Washington 6, D. C.

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Dean Grennell of GUNsport writes on Rifle reloading—Kent Bellah, Guns Magazine, Handgun reloading—Francis Sell, Shotgun reloading—Bob Steindler, Guns Magazine, Developing a loading system—George Nonte, Shooting Times, Forming special cartridge cases—New step by step reloading procedure by members of the Speer Ballistics Staff.

## PLUS SPECIAL COMMENTS ON TIMELY SUBJECTS BY

WARREN PAGE, Field & Stream  
"Better Reloads for Game and Fun"  
JACK O'CONNOR, Outdoor Life  
"Pressures and the Handloader"  
PETE BROWN, Sports Afield  
"Practical Ballistics for Shooters"

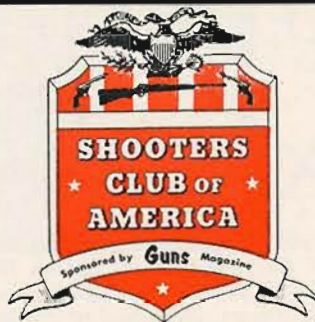
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# NEWS from the SHOOTERS CLUB OF AMERICA

The response to the March GUNS article "A Pro-Gun Law Now!" has been immediate and vocal. Here are a few excerpts from the many letters.

### A Congressman:

"This is a very fine article indeed, and one which is certainly thought-provoking and stimulating. You have a valid point in that sportsmen and gun lovers will do well to seize and hold the initiative on gun laws rather than awaiting the worst. We should never be placed on the defensive on a question of this nature."

Representative Bob Sikes  
First District, Florida

### High Ranking Police Official:

"I find it (the article) almost entirely in keeping with my own ideas on the subject . . . I am for it all the way, and of course there is always the faint glow of hope that it could be successful."

"Whatever is done, efforts must accompany the 'pro-gun' drive to make it hurt like hell when a gun of any kind is used in crime . . . otherwise we will lose the backing of a great many influential people, or perhaps even gain their opposition. PUT ME DOWN AS BEING VERY FAVORABLE provided criminal use is fought as actively as unrestricted ownership is fought for."

Harry Reeves, Inspector Detroit  
Police Department

### A Renowned Collector:

"In my opinion, we must extend every effort now to prevent enactment of undesirable amendments to the Federal Firearms Act or the National Firearms Act and try to get Congressman King's amendment enacted regarding the interpretation of several parts of the Federal Firearms Act. I believe it is only through amendments to the existing acts that we can make progress . . . by the co-ordinated efforts of all individuals and all organizations we can present a united front on certain basic facts:

1. We are firmly opposed to all forms of firearms registration.
2. We are opposed to any law denying a citizen the right to purchase and possess a pistol, rifle, or shotgun unless he may have a criminal record or is shown to be incompetent.
3. We favor severe and mandatory sentences, not subject to easy parole, for anyone convicted of a felony involving the use of firearms."

James E. Serven

### Military Leader, Firearms Expert:

"I agree whole-heartedly that the time to act HAS COME . . . NOW! Our gun clubs, sportsmen, and the National Shooting Sports Foundation should form a capable committee to draft and follow through on a bill to clear up the fuzziness contained in the Second Amendment. At best we are clinging to and basing our RIGHTS on wording that can technically be misinterpreted. Let's clear up the position of the honest American citizen once and for all, with regard to his God-given right to protect his family, his property and his INHERITED love of sports afield."

Lt. Col. Lyman P. Davison, National Director,  
National Police Officers Association of America

### Marine Hero, former Governor:

"I read with considerable interest the article entitled, 'A Pro-Gun Law Now,' and want to commend the author on a job well done. I am happy to see positive steps taken, in place of letting the negative side continue to flood the press and legislative halls with a lot of misinformation."

Joe Foss, Commissioner  
American Football League

The May issue of GUNS will contain an article of great importance to all gun owners everywhere. You can reserve your copy by joining The SHOOTERS CLUB of AMERICA (see page 63).

## When Are 50 Words A Lot?

Early in September '63, we wrote to a number of Congressmen, asking them for statements about their attitudes toward guns and gun ownership for our "Know Your Lawmakers" column (see page 4). One Representative from New York, John V. Lindsay, replied: "You may be disappointed to learn that I am not a shooter and don't even own a gun."

"Nevertheless, I deeply respect the fundamental American Right of gun ownership, within proper police and safety regulations."

"Fifty words sounds like a great deal, particularly in view of the fact that I am already several months behind on articles that I am supposed to be writing."

Now we see that given the proper inducement, Mr. Lindsay was not too busy to write a few thousand anti-gun words for the Saturday Evening Post.

The SEP article, February 1 issue, was headlined "Too Many People Have Guns." In sweeping statements and conveniently forgetting FBI statistics and statements from leading police authorities, Mr. Lindsay favors highly restrictive gun laws, including "making the gunslingers present their credentials."

He claims to be a "strict constitutionalist" giving "literal meaning to the words of that great charter." He therefore feels free to judge the second amendment as outdated and antiquated, and the Constitution "must be interpreted in the light of changing times..."

Mr. Lindsay has not yet proposed to change the freedoms of speech or religion, but he may try that yet, in the light of changing times, of course. "We the people of this country have no more right to the indiscriminate, unregulated acquisition and ownership of guns... The constitutional right to 'keep and bear arms' doesn't mean that you or I have a right to walk down the street with a bundle of hand grenades tied to our waist, or to enter a streetcar with a loaded shotgun, or to obtain a high-powered rifle with a telescopic sight by mail order." One can only scratch his head in amazement as he considers what town or street in America the sometimes vocal Congressman can be referring to. His grossly exaggerated illustrations are not only unfair but ridiculous.

Mr. Lindsay was too busy to make a statement for GUNS Magazine, but he did find time to call gun ownership "an unchecked, ungoverned pestilence," when given the right kind of SEP encouragement!

For GUNS Magazine, we will continue to ask for and publish FREE statements—in every sense of that wonderful word.

# BLAM! BLAM! BLAM! BLAM! BLAM! BLAM! BLAM! BLAM!



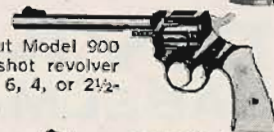
If you want firepower, see the Harrington and Richardson .22 caliber, 9-shot Sportsman Model 999 at your sporting goods dealer now. This top-breaking revolver has automatic ejection, target weight barrel and is excellently balanced for greatest shooting comfort and accuracy. It's the quality gun you want—at a price you want to pay!



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## CROSSFIRE

### Second Amendment

*Editor's Note: The response to our article "The Second Amendment Is Not Enough," in the January issue of GUNS, was tremendous. It would be impossible for us to print all of the comments we received, but we are publishing excerpts from several of them here. We want to thank all who wrote, not only for their support, but also for their constructive comments.*

I grew up in the East Side of New York City . . . where the honest citizen has to go through so much red tape (to get a pistol permit) that when he finally does get one, he isn't sure it was all worth it.

In closing, it is a proven fact that in the history of mankind, "The armed citizenry is the free citizenry." Keep these articles coming.

W. Robert White  
Clarkton, Mich.

More and more, every day we see and hear people on radio and on television, and in the newspapers, who seem to get all of the publicity they need to promote their views on the current firearms situation. Far too often, these people are not at all aware of even the most basic points involved, yet they are quoted as if they were the answer to all of the world's problems. One fantastic example of this appeared in a New York newspaper where the reporter was interviewing police officials from all over the country who were attending a seminar on photography at the Kodak plant. All of the police officials, quoted in the article, were against any further gun laws, and most of them pointed out that criminals would get guns no matter how tough the laws. Yet, in this same article, one of Kodak's photographic consultants: "... suggested that firearms restrictions be kept intact, but that control of ammunition be instituted. He suggested that laws could be passed to require sportsmen to present "subscriptions" when buying ammunition. Such prescriptions would be issued by local law enforcement agencies."

Fred Ramos  
Tremont, N.Y.

I agree that the 2nd Amendment is not enough, but in view of the events of Nov. 22, we may not even have that much left soon.

Did you ever notice that the 2nd Amendment opens with "A well regulated militia . . ."? In addition to the National Guard, most states also have a code covering the bulk of the male population in certain age brackets. This is the unorganized state militia.

I propose that all those in favor of lawful

possession of firearms get to work studying a means of making the militia clause mean something. You might study the Swiss military system, and that odd force known as the Norwegian Home Guard. The Swiss are officially armed, and the Norwegians do not have lists of their guns for stock records! Most of them are veterans of the fight against Germany and they had enough experience with the fate of unarmed folks . . .

John P. Conlon  
Newark, Ohio

I will most happily and heartily endorse a new amendment to the U.S. Constitution which will spell out and forever (I hope) protect and preserve the right of responsible, reputable adult citizens to own, keep, and bear arms for the purpose of protection (personal, family, and property), education and instruction, and recreation.

The NRA has done a fine job to date, but always the shooter and collector has remained on the defensive. This has been a continual frustration. At long last you have put my dream into words . . . a pro-gun law! I feel very strongly that the preservation of the right to own, keep and bear arms is absolutely essential to the preservation of all other human rights.

Donald E. Pullen  
Venice, Florida

To solve our social problems, we need not abridge our rights. Attempting to legislate against the effects of anti-social behavior will only cause its eruption elsewhere. To try to eliminate it, we must concentrate on making anti-social behavior unattractive and unhealthy. Present attitudes of pampering criminals, both adult and juvenile, will only result in more offenses. But we need not penalize the just to control the unjust. It is time to act in a positive, rather than a negative, manner. Let us reaffirm our Constitution's Second Amendment, and our basic freedoms, and at the same time properly strengthen our laws against the abuse of it.

D. D. Lethert  
St. Paul, Minn.

I am definitely in strong favor of a Pro-Gun law, and believe that anti-gun laws would endanger the safety of our nation . . . Minute Men are never obsolete!

Jonathan Beatty  
Vallejo, Calif.

It is quite refreshing to learn the active steps your organization is taking to blanket not only the anti-gun laws, but the devious and subtle tactics used to disguise the motive behind the gun restriction laws.

These are but parts of the picture puzzle before the average citizen today, and we feel that the Shooters Club of America is not, and will not, be confined to "shooting the breeze."

Olen Casteel  
Hillsboro, Ohio

### December Cover

In the box, concerning the cover, is a neat description of the photograph and credit, but there is a connotation that the cannon was made by an individual. Actually this is a product of Centennial Guns that Ray Riling, Jr. of 6835 Gorsten Street, Philadelphia, Pa. (19119) is selling for discerning collectors. They are \$35.00 each, complete with walnut base.

Ray Riling  
Philadelphia, Pa.

### A Pro-Gun Sheriff

I wish to inform you that because of the efforts expended in this county, and the rallying of the sportsmen's groups behind me, the county has now decided that they will build a target range for rifle shooters.

John Misterly, Sheriff  
Sacramento, California

### Arms and The Law

There are in the U.S. some 35 million persons who own firearms of some kind—rifles, shotguns, handguns and a varied assortment of war souvenirs. Two of these 35 million—two assassins—turned up in Dallas a fortnight ago and shocked the world. Result: further impetus for the long crusade to register all firearms, including hunting rifles and shotguns, with state and federal authorities.

Many who oppose firearms ownership altogether, and some who desire arms registration, are afraid of guns, do not understand them and therefore are antagonistic to them. It is these, in the main, who would make it as cumbersome as possible for Americans to own and use guns, even for recreational hunting and target shooting.

The contention that mandatory registration of firearms would prevent such tragic crimes as the assassination of President John F. Kennedy, and the subsequent murder of Lee Harvey Oswald, is ludicrous. Even the most stringent laws, such as New York's Sullivan Act, cannot prevent criminals, fanatics and lunatics from obtaining guns illegally. Rather the effect is to disarm the law-abiding, while muggers run free.

From the December 9, 1963, Scoreboard, Sports Illustrated, Time, Inc. Reprinted by special permission.

*We have received many letters saying that pro-gun thoughts have not been published in magazines going to the general public. Here's one item that was seen by the many thousands of "Sports Illustrated" readers.—Editor.*

### Dalton's Colt

I just happened to pick up a copy of the March, 1962, issue and read the story by George Virgines, entitled "Guns that Rode with the Daltons." Near the end of the story it says that, "Emmett Dalton's Colt is in the Los Angeles County Museum of California." It is a Colt Single Action Army, serial 83073,

caliber .44-40, with a 5½" barrel. The story also relates how Bob Dalton purchased ten brand new Colts in preparation for a double bank holdup.

Now, the purpose of this letter is to inform you that this gun was one of ten nickel engraved guns sold to "Hartley & Graham" in New York City on September 31, 1882. This was ten years before the bank robbery took place on October 5, 1892. It seems that these Colts found their way west and it would be interesting to know if the Daltons bought the entire shipment.

J. Gannon  
Colt's Pat. Fire Arms Mfg. Co.

### Pro-Gun Promoter

I'm a new subscriber to GUNS, although I bought it on the stands for a long time—it's the best \$6.00 I ever spent.

I've got a new campaign going for me out here, going to the non-shooters. If I can get them to spare 30 minutes, I show them a range, and a very healthy way to release built-up tension. I then slap them with the scary fact that there are those who would like to take this away from us, or reduce it to BB guns in a concrete building, to pacify us.

I have so far created 12 new converts; 3 who know the problem; 6 or 7 who don't shoot, but own a "protection" .22 for the house, and 2 who are absolutely not interested in shooting or guns, but subscribe to the NRA and GUNS just to keep informed, because, as they said, "If they take this away from you people, they can take away my interests, too."

I've got so automatic, that if someone hits me with a spotlight, I do 3 minutes of my routine. Keep up your fine work.

R. D. Peasley  
Portland, Oregon

*If each of us got 12 new supporters, we'd really be able to squash bad gun laws. Let's all take Mr. Peasley's lead, and work at promoting the shooting sports.—Editor.*

### Membership List

Enclosed is my \$7.50 for charter membership in The Shooters Club of America. I am thoroughly convinced of the evils of gun registration, and I would like to see it completely done away with. However, I hope you realize that by forming an organization of this kind, you will have succeeded where the gun registration advocates have failed. The Communists would have tremendous aid in locating weapons simply by seizing your subscription lists. While I firmly believe that the Communists will never "take over" the United States, I do believe that you should keep close watch on your list of members.

Stanley Zielinski  
Bellows Falls, Vermont

*We'll watch our lists! But the situation is not quite the same. A gun registration proves you bought a gun. I was once a (tennis playing) member of a Yacht Club, but nobody can prove that I ever owned a yacht! Or even a canoe!—Editor.*



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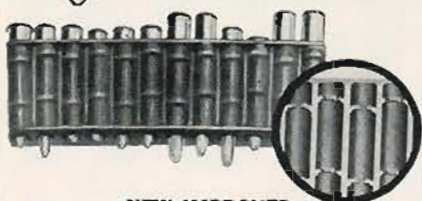
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# GUN RACK



### RCBS Powder Trickler

Long rumored, Fred Huntington has finally shipped out the first of the completely new Powder Tricklers. There are several features about this RCBS Trickler that are worth noting. First of all, the powder reservoir is large enough to be satisfactory for the guy who loads a great deal of ammo at one sitting. The knob of the trickling tube is large, and best of all, is covered with a rubber handle that gives you a positive feel of the movement of the tube. Last, but not least, is the fact that the base of the Trickler is big, and wide, and hollow. Rough up the inside of the base—the Trickler is cast of some lightweight alloy—with a file, a drill, or a small grinding wheel, fill it with hot lead, and your Trickler will never topple over on your bench. If you don't want to go through the fuss of melting lead, fill the base of the Trickler with shot, and close the opening with a large cork. If you weigh your charges, then you should not be without one of the RCBS Powder Tricklers.

### Case Length Gauge

McKillop & Heyer, Inc., Dept. G, 3871 N. Kirtland Rd., Willoughby, Ohio, now offers a much-updated version of their well-known Case Length Gauge. If you have never used one of these gauges, you have missed something, and the new ones are even better than the one we have been using for a number of years. The new gauge covers all of the latest calibers, and unlike the finish of the older gauges, the new ones have a chrome matte finish. This makes using the gauge a lot easier, and there is virtually no reflection from the metal, even when you look at the gauge under a big workbench light. If you load your own rifle ammo, especially several calibers, you owe it to yourself to get one of the new McKillop & Heyer gauges. They are a bargain at \$4.25.

### Scope Repairs

About a year ago we swapped some ammo and dollar bills for a German Mauser sporter. The gun was complete, including a German scope, but the scope was in need of repairs and cleaning. Since the manufacturer of the scope does not have a U.S. office or plant, we scouted around for someone who would try to clean, repair, and realign our new acquisition. Tele-Optics, 5514G Lawrence Ave., Chicago 30, Ill., undertakes this kind of work on scopes, binoculars, and other optical equipment. I shipped the scope out, got a reasonable estimate a week later, and three weeks later, the refurbished scope arrived. The Tele-Optics people did a fine job at a

reasonable price, and our gun is now ready for some serious shooting. Tele-Optics can handle scopes that have not been on the market for years, and they can even furnish parts for them.

### Spar-T-Press

The Lyman Gun Sight Corp. offers a dandy, new press. Based on the Lyman Spartan press, the new C-type loading tool offers the versatility of the C construction and the convenience of a turret tool. The tool is strong enough to swage bullets and



form cases, and the turret head indexes easily. The linkage of the tool can be set up so that it can be used with either up or down stroke. We have used the Spar-T for a number of rugged jobs and found it to be highly satisfactory. We especially liked the Auto-Primer Feed. Once mounted, it delivered primers easily and smoothly without tipping or cocking primers in the tube or the primer cup. The primer arm did need a touch of a fine grinding wheel from our Dremel tool to make it fit into the slot of the ram easily—and this made the primer feed operation butter-smooth. With the tool came a set of .30-06 dies—and like the other Lyman tools and dies we have used over the years, they were well made and did a fine job. The Spar-T is a fine loading tool, and will appeal to beginner and expert alike since it does offer a great deal of versatility, and in a small tool, the M A (mechanical advantage) obtained from the linkage is amazing—and that is important to all of us.

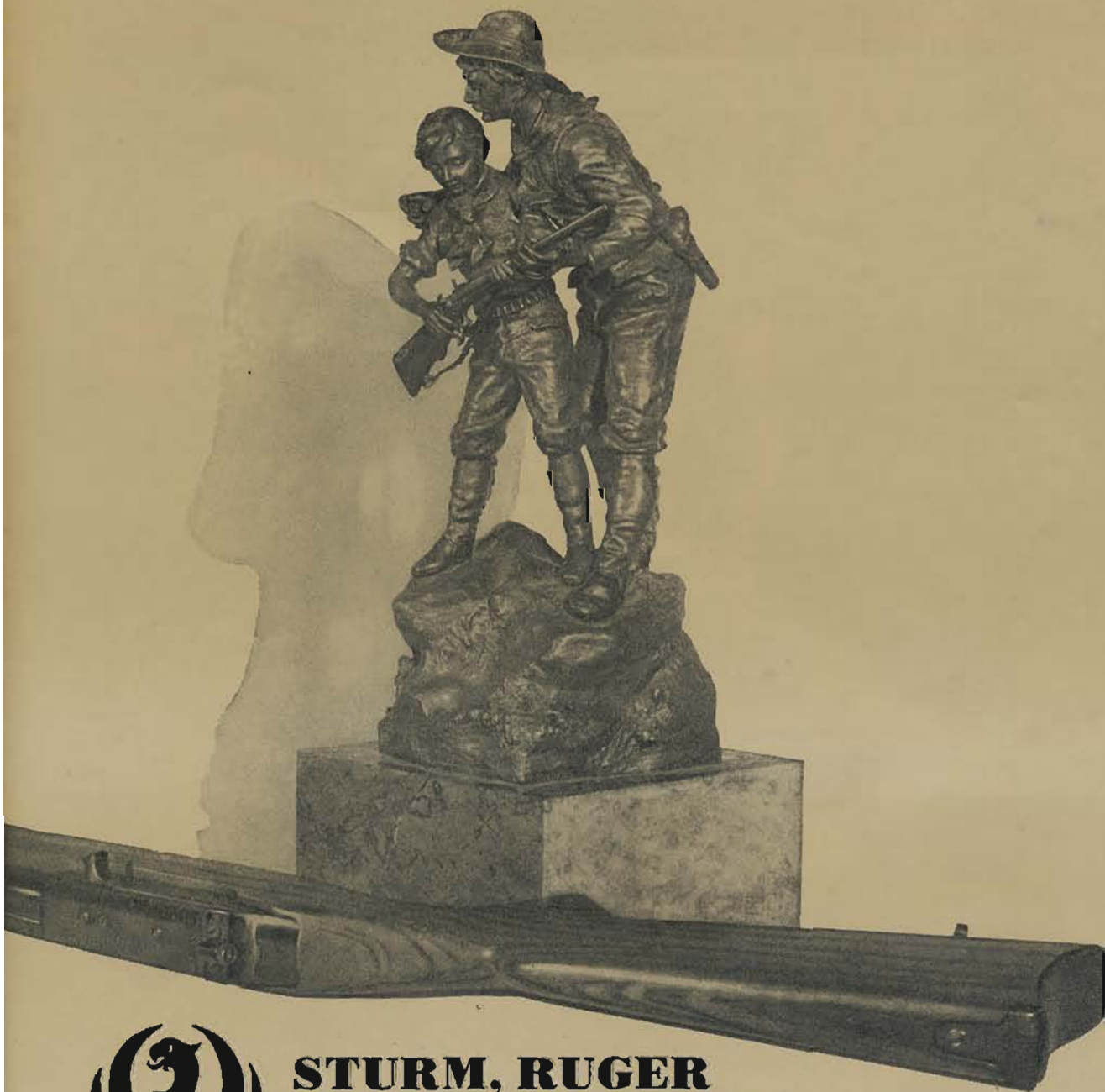
### Moto-Tool

Ever tackle a job on your loading bench or work bench, only to find that you needed a small grinder, or cutter? And, of course, you did not have the tool you needed to finish that simple job, and had to take the whole thing down to a friend or to your

(Continued on page 48)

“To ride, shoot straight, and speak the truth—  
This was the ancient Law of Youth.  
Old times are past, old days are done;  
But the Law runs true, O little son!”

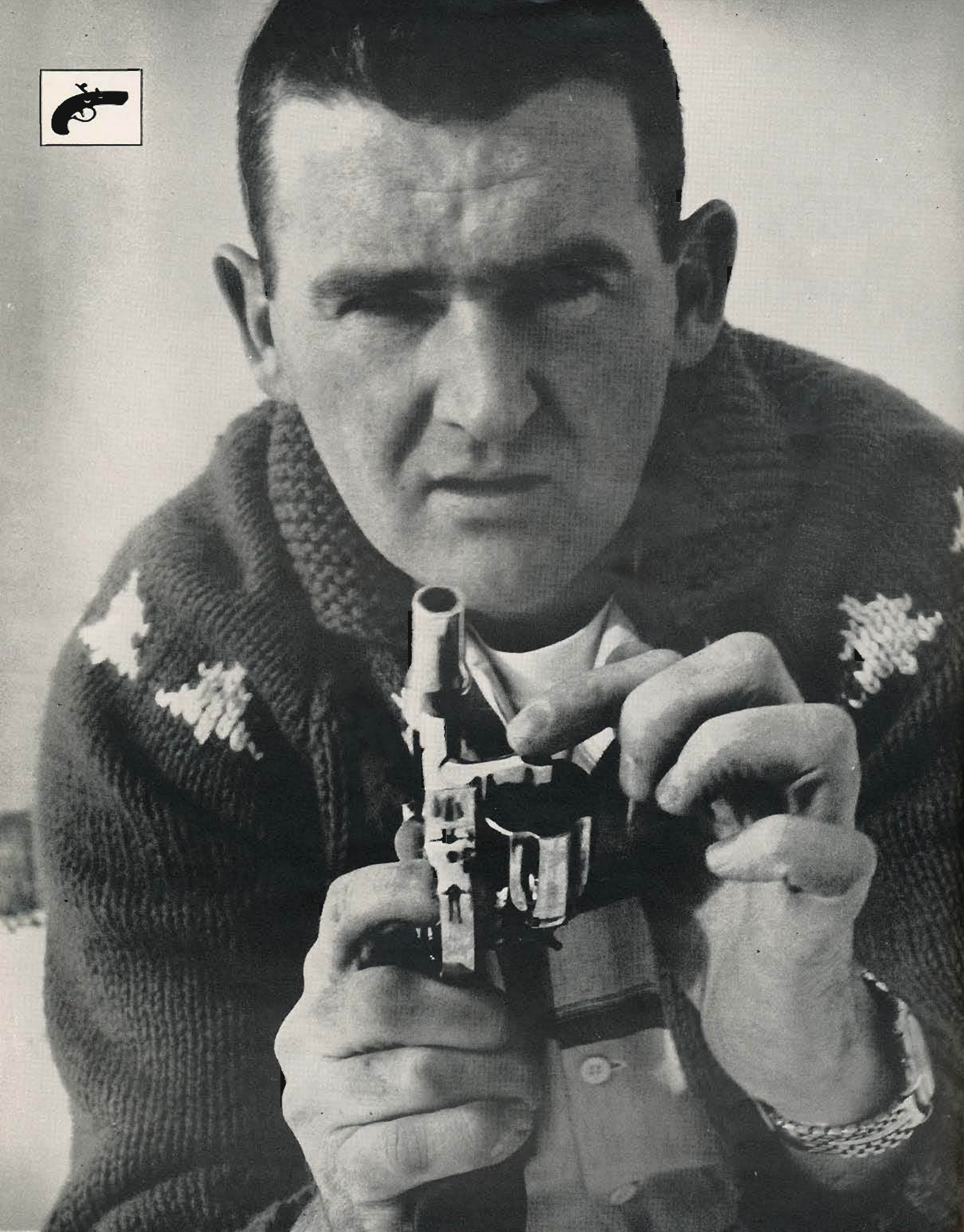
— Charles T. Davis



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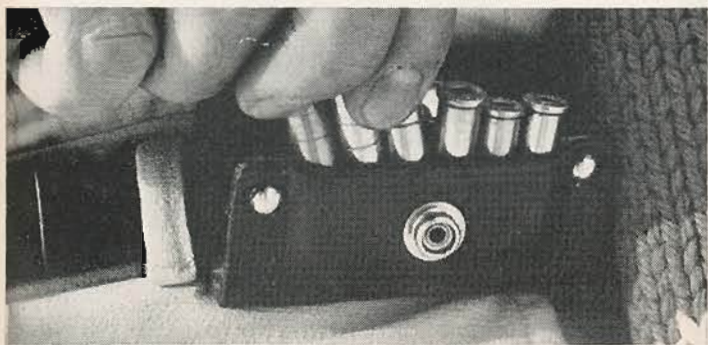
By JOSEPH S. RYCHETNIK

**A**T THE SIGNAL, the shooter crouches and fires. Six fast shots from his .38 Special revolver slam into the vital K-5 area of the target. But it is still not over; he must reload and fire four more rounds—and the clock keeps ticking away. This is the seven yard draw and fire sequence of the Practical Pistol Course, where shooters sometimes discover that reloading is often more difficult to master than keeping the ten rapid shots in the bulls-eye.

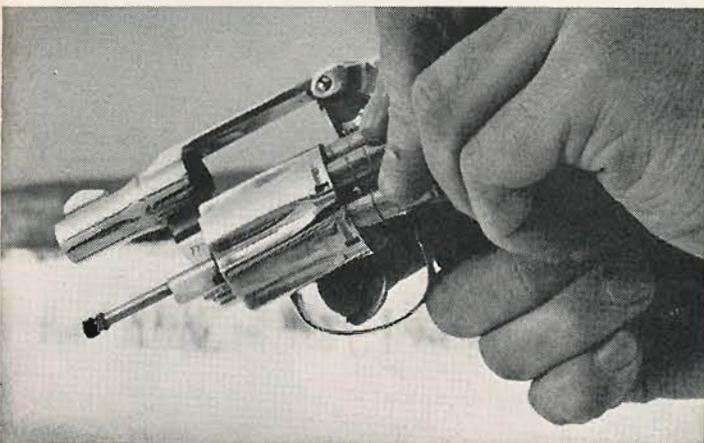
Wadcutter ammunition, in addition to the nervousness that accompanies shooting under pressure,

turns the fingers into thumbs and, in the eyes of the shooter, reduces the chamber size to something like .32 caliber, letting the sharp shouldered .38 Specials somehow go astray.

On the range, while practicing or during a combat type tournament, no real harm is done—a reloading hang-up may be embarrassing, may even cost valuable points. But in a life and death situation, an empty revolver is less than useless, and unless it is loaded quickly and safely, disaster can result. Learning a standard method of reloading



Belt carrier (above) holds six rounds securely, and permits three rounds to be withdrawn quickly. They can be loaded into cylinder with one motion (below), the cylinder closed, and the firing can be quickly resumed in an emergency.



The two-handed method of closing cylinder is faster and much safer than flipping it shut with one hand.



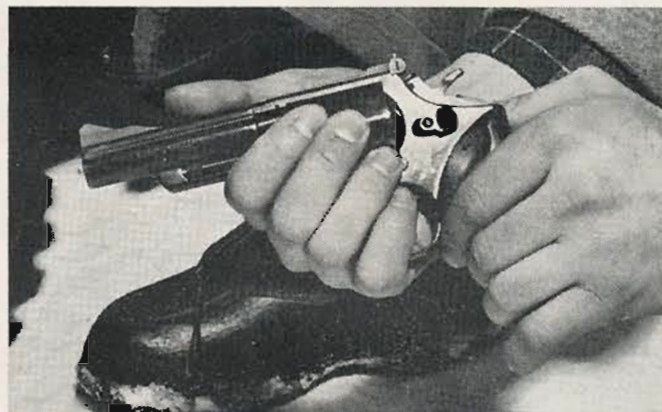
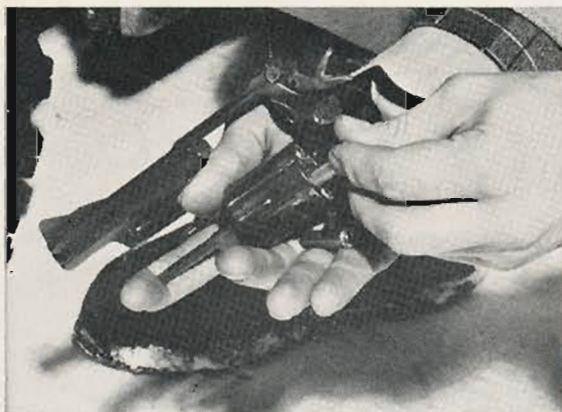
With eyes on target, empties are ejected with right hand, keeping left free for reloading.

your gun, and practicing it regularly, is mandatory if all-around proficiency in combat or self-defense shooting is to be maintained.

Although police officers, and others charged with the protection of life and property, are normally faced with these problems, shop-keepers, homeowners, and persons carrying handguns for protection against dangerous men or animals should practice some technique for returning their pistol to a firing capability after the first load is expended.

Many home protection handguns are kept out of sight and unloaded for home safety reasons. When needed, the immediate danger is unknown, and darkness coupled with this uncertainty creates panic. These home guns must often be loaded from an ammunition supply some safe distance from the gun. To do this quickly takes practice and firearms familiarity. A few dry runs are necessary to bring the process to perfection.

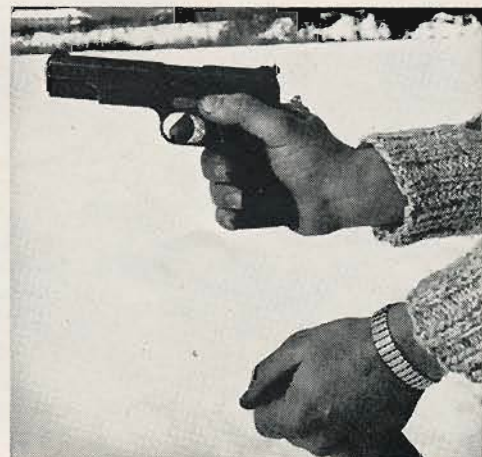
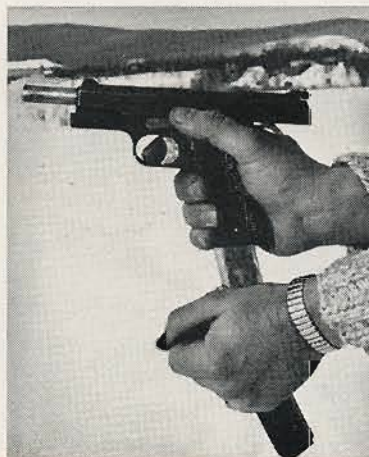
Police officers, and others who carry a handgun regularly, can become even more efficient in reloading, if their pistol, spare (Continued on page 65)



In reloading system shown at left, gun is held securely while cylinder is rotated with the fingers. Open palm of left hand catches any dropped cartridges. Simple motion (right) then closes cylinder.

## ALASKA PPC

Sequence shows .45 Colt magazines changed with gun pointing at target. With slide locked back, empty clip is released into hand which holds fresh clip. With practice, this can be done in two seconds.



# BANDTAILS— High Velocity Pigeons



The bandtail's wide wingspread makes their flight patterns erratic as well as speedy.

## YOU NEED SKILL, LUCK, AND THE RIGHT GUN FOR THESE WILY BIRDS

By FRANCIS E. SELL

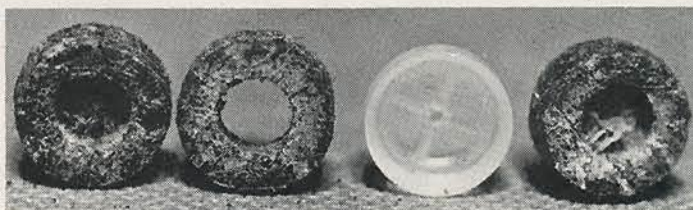


Author's favorite 20 gauge Magnum double bags another bandtail—this one was coming in fast.

**T**RAVELING 60 MILES AN HOUR, at a range from 25 to 55 yards, and coming up at the most unexpected times and places—this is a target that can make strong men weep—this is the western bandtail pigeon.

Last season, standing on a high pass in the hills of southwestern Oregon, this uncanny flight of the bandtail was underscored by the first solitary pigeon that passed over—he was easily making 88 feet per second. Though my gun was as right as a custom-made pigeon gun could be, fitted beyond the least cavil of gunning doubt—I waited his approach with something less than full confidence in my ability to take his measure. I took my two shots just as he caught a stiff northwest wind on a wing tip and arrowed directly overhead. Range—50 yards; shots—two; results—none!

Bandtail pigeon shooting such as this is apt to make a gunner ponder the question of proper gauge; proper shot size; proper gun weight and barrel length. And, as Al Lyman, my hunting partner once said, "No matter what gun you have on a bandtail pigeon pass, you'll probably end up wishing you had some other." But there are ways (*Continued on page 49*)

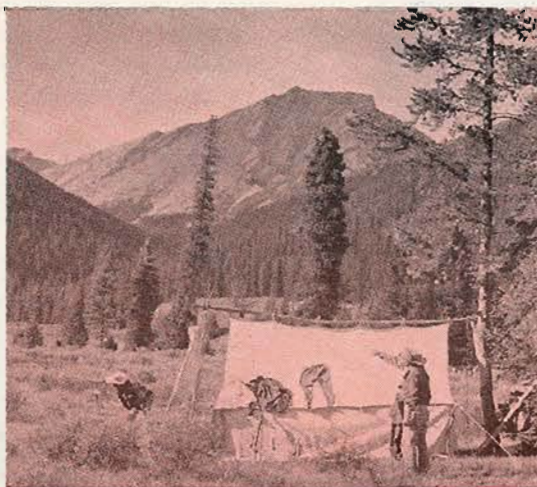


Perforated filler wads and Alcan PGS wads are used in special pigeon loads. The cupped wads may also be used.

An extraordinary Alberta ram,  
bagged by Ohioan Homer Sayers,  
in the Rockies south of Banff.



# BASICS FOR BIGHORNS



Spending long hours in saddle are requisites for the sheep hunter. After long ride, base camp is set up, and then the arduous hunt can begin. At far right, hunter Jack Antrim and guide Fred Rattray admire ram.

By ERWIN A. BAUER

WHEN ERIC KJOS and I reached the crest of the lonely ridge, we simply slumped down on the soft, gray shale. My legs felt like worn-out rubber bands and my lungs were on fire from the long and terrible climb. But we were practically on top of Alberta and, except for snow squalls circulating all about, we had a panoramic view of some of the world's best sheep country in every direction.

"As soon as I stop blowing," Eric said, "we'll try the glasses and see what's out there."

There was plenty. Four hundred, maybe five hundred yards away to the east were five bighorn rams. Three were bedded down, but two were already on their feet and watching us. Any minute all five of them would bolt, but that didn't make much difference. What really mattered were the two rams he spotted in another direction—both were once-in-a-lifetime trophies.

Eric studied the rams and their location for a long time before he lowered his glasses. "They're in a helluva spot to approach," he said, "and we will have to make a wide circle to get close enough for a shot. Do you think we can make it before dark, or should we plan an earlier start in the morning and try to find them again?" It wasn't an easy decision to make. The afternoon was wasting away, and I was beat. Tomorrow I would be fresher and we might conceivably find the rams in a more accessible spot. Then again we might not find them at all. Nothing about bighorn hunting is really predictable. "Let's try them now", I answered.

Our retreat from our position on the ridge wasn't bad, nor was it too tough to hurry across a long slope punctuated with bunch grass, sheep tracks and pellets. But negotiating the deep

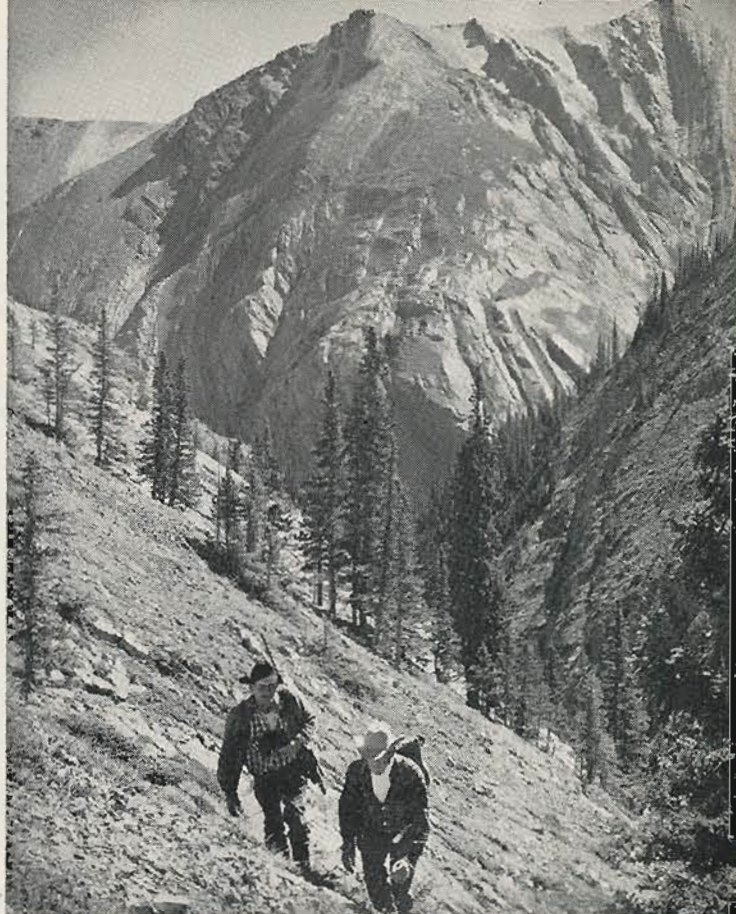
## HERE ARE TIPS FOR BIGHORN

## HUNTING THAT CAN HELP INCREASE YOUR CHANCES OF GETTING A TROPHY RAM

chasm which separated us from the sheep was another matter. We moved inches at a time because we needed handholds as well as footholds to proceed at all. Once I felt a cold chill when a loose rock fell away underfoot and made me claw to keep from sliding to eternity. But all the toil was in vain. We reached the far rim just in time to see the light rumps of the rams disappearing over a rise. Talk about feeling completely defeated; I did.

It was no pleasant descent in darkness to our horses. Nor was it a happy ride back to camp. Once we settled down to relax in a warm tent, bourbon-and-branchwaters in hand, it was possible to be somewhat philosophical. "I've struck out other times before today," I said, "and no doubt will do so again." Eric answered, "Amen."

I've hunted in almost every corner of North America, and elsewhere besides, but sheep hunting in the Rockies has a special fascination and character, and even a charm which is completely unique. It's almost a science; at least that's the way the most serious sheep guides I've known (*Continued on page 44*)



Guide Eric Kjos and hunter John Moxley begin their hard climb into Alberta's sheep country.



During the rugged climb, guide and hunter stop to rest and unwind, before tackling the crest.

# NIKE ZEUS— MISSILE KILLER!

**THE LATEST U.S. ANTI-MISSILE MISSILE IS NOW A  
COMPLETELY AUTOMATED, AND DEADLY SHARPSHOOTER**

By LAIRD HARDING

**A** NIKE ZEUS AMM (anti-missile missile) shot it out for the eleventh time with an Atlas ICBM (intercontinental ballistic missile) on the 5,000 mile Pacific Missile Range. The first intercept, on July 19, 1962, was one of the greatest days in the history of weaponry.

Poised in its concrete silo on the Pacific island of Kwajalein, the lithe and lethal Nike Zeus waited for the Atlas to blast off its launching pad at Vandenberg AFB near Point Mugu, California, and come streaking half way across the ocean at over 16,000 miles per hour. About 30 minutes later, indicators in both missiles announced that the Zeus had again scored a bull's eye!

Both protagonists in this mighty duel, high above the waves, were named after the mythological gods of the ancient Greeks, though the Pentagon could have named this AMM the "Wes Hardin," after the gunfighter who, decades ago, allegedly gunned down a desperado who had a pistol pulled on him with the hammer cocked. This the Nike Zeus is called upon to do, and does it phenomenally well. The incredible reaction times of the professional gunslinger, or an Ed McGivern are as slow as a turtle wading through molasses when stacked up against the new hypersonic rocketry.

When the Nike Zeus won the military's "fast draw trap shoot" in the mid-Pacific, the world's first completely automated weapon system made its successful debut. Neither automatic nor a weapon, in the traditional sense, the Zeus Defense Center is a fully automated weapon system which—without human help—spots intruding hypersonic ICBM's; determines speed, trajectory, point of impact; rejects decoys; assigns each incoming warhead to one of its many "birds;" launches it without outside aid; calculates lead and guides it to the cataclysmic intercept with closing speeds above 25,000 miles per hour, or 36,960 feet per second.

Since 1955, when Bell Laboratories completed feasibility studies, \$1.5 billion has been spent on the Zeus with the result, according to the experts, that "its operating parameters (speed, range, intelligence, accuracy) are incredible . . . The sheer magnitude and complexity of such a system is enough to make its successful development seem impossible even to the initiate." Recently, an additional rocket, the Nike X "Sprint," faster and smaller, has been added.

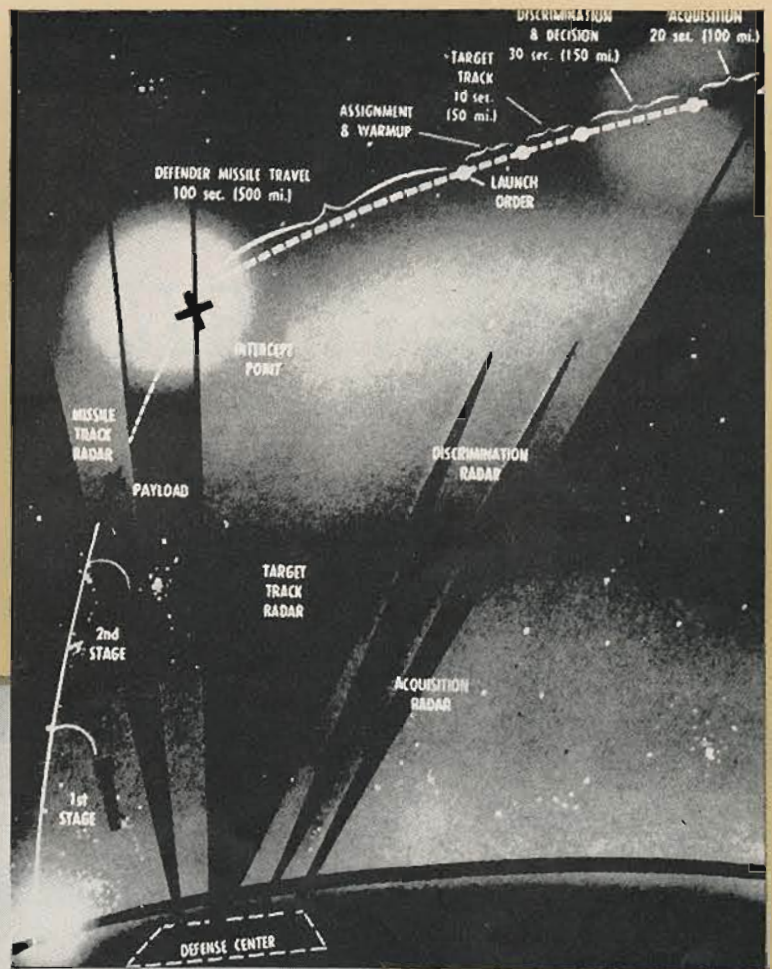
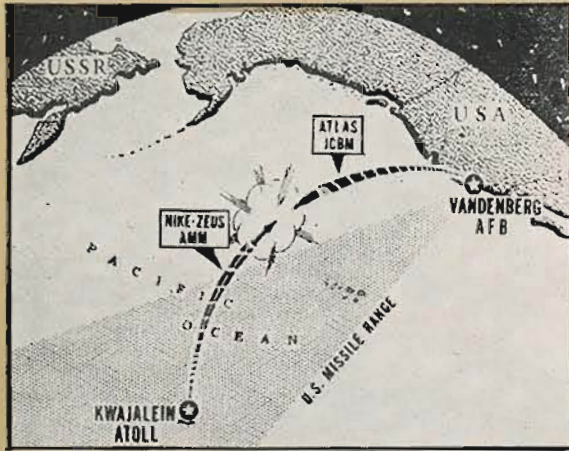
Zeus, the third generation Nike, is a solid propellant rocket over 48 feet long, with its 3 stages packing 450,000 pounds of thrust to produce extreme acceleration at blast-off to reported 7,200 mph necessary to kill ICBM's which have re-entry speeds over Mach 15. (Mach number is the ratio of flight speed to the speed of sound—761 mph or 1,116 fps. Thus, the Army 30-06, at 2700 fps, travels at Mach 2.4.)

An early Western Electric announcement about the "bullet that will hit a bullet" explains why the Zeus had to be automated:

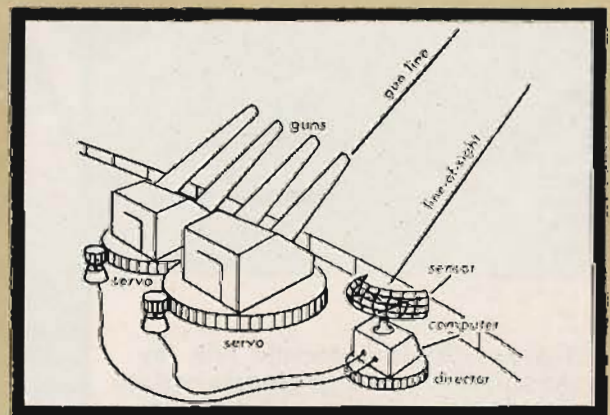
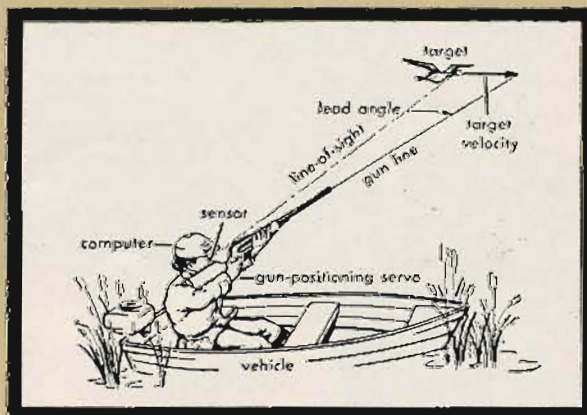
"The Nike Ajax and Nike Hercules systems were supplemented by human beings who determined: 1—whether or not the sighted (Continued on page 60)

**A Nike Zeus rises off the pad  
at White Sands Proving Ground.**

The world's largest "skeet" layout spans the Pacific Ocean. "Claybird" is a deadly ICBM.



Above, graphic sketch shows Nike Zeus reaction time. At left, the Nike family poses for a portrait: from left to right, Ajax, Hercules, Zeus.



Text compares a hunter-scattergun-duck system to a semi-automatic anti-aircraft weapons system.

# *THE* **AR-18** *COMBAT RIFLE*

By JEROME RAKUSAN



The shorter, lighter, and smaller caliber AR-18 (left), and the standard Army M-14.



The new AR-18 automatic rifle, by ArmaLite, is shown above during a recent demonstration. Close-up of AR-18 action shows the extensive use of low cost sheet metal parts.





Extremely light recoil of the AR-18 is demonstrated by shooter who holds rifle to his chin with one hand while firing full-automatic. Note empties in the air.

**T**HOSE OF US who thought that the Colt AR-15 raised about as much havoc with the proponents of the Army's M-14 rifle as possible, haven't seen anything yet, judging by a release that I've just seen.

The background of this "controversy" was covered in "The Truth About The M-14," March, 1964 GUNS. After the big Colt contract for AR-15 rifles was announced, everybody waited for what promised to be a battle royal. But the M-14 article pointed out that the AR-15 and the M-14 are two different weapons, designed for different purposes, with really very little conflict of employment.

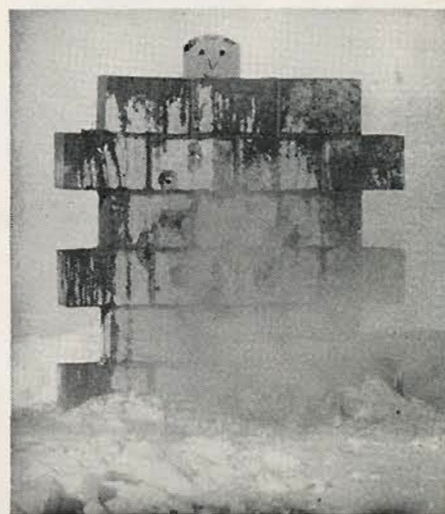
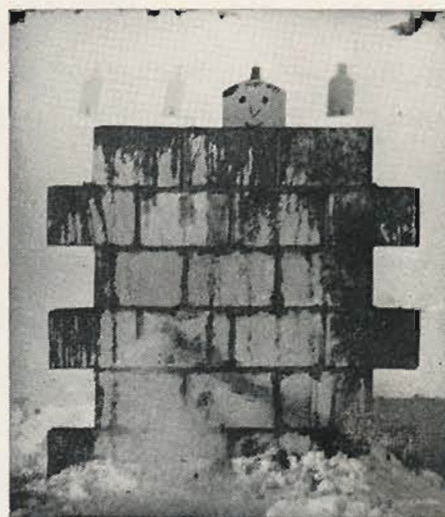
Now comes ArmaLite Inc., the original developers of the AR-15, with their announcement of a new rifle, the AR-18, and this promises the renewal of the controversy, since this rifle is designed to do the same job as the AR-15. Let's look at this new development, comparing it to its kissin' cousin—the AR-15.

ArmaLite, who developed the AR-10 rifle, the U.S. Air Force-adopted AR-5 survival rifle, the AR-16 rifle, and the .223 caliber AR-15, had three primary design considerations in mind when the AR-18 was planned. First, they wanted a rifle that would give maximum performance under the most adverse combat conditions; rain, snow, sleet, dust, sand, extreme cold and icing, mud, and high humidity. To achieve this, they designed the bolt carrier to travel on two spring-loaded rods which operate through the bolt carrier, preventing foreign particles from getting into the mechanism and causing fouling, which could result in a stoppage. In addition, the gas system is simpler than that of the AR-15, and the firing pin is spring-loaded, eliminating primer sensitivity as a major misfire-causing factor.

Next, ArmaLite desired a rifle in which all functional operations were kept as simple as possible to permit rapid training of personnel in its use and maintenance. That this has been achieved is shown by complete field stripping which takes only a few seconds, and is done without the use of any tools.

The third design consideration was the reduction of manufacturing cost. To achieve this, the AR-18 makes use of sheet steel stampings and automatic screw machine parts wherever possible. The expensive, time-consuming milling operations have been held to a minimum. A breakdown of the major metal components of the AR-18 shows that 26 parts are stampings, 31 are screw machine products, and only nine require machining.

*(Continued on page 62)*

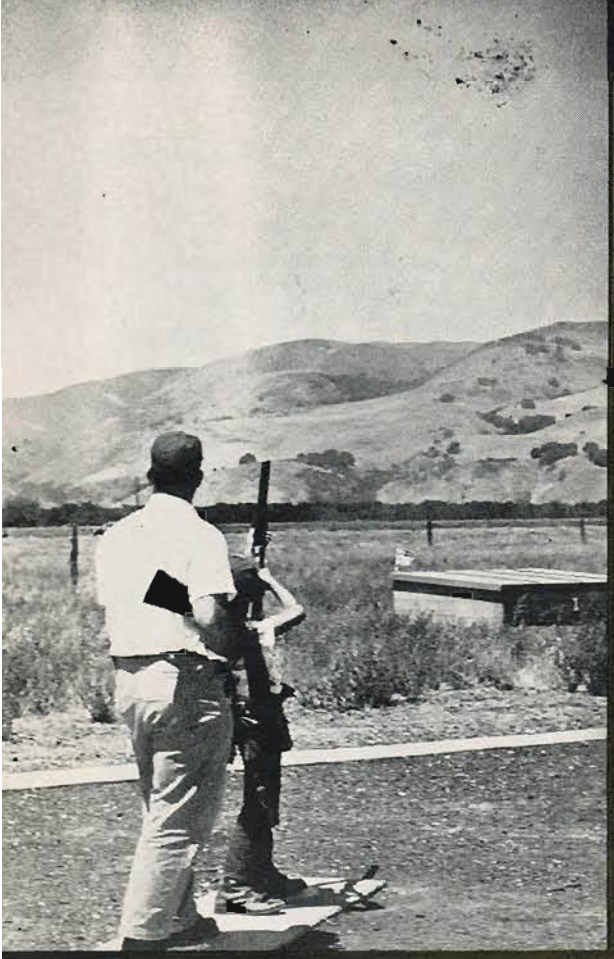


The destructive force of the small but mighty .223 cartridge is shown in this series of photos. Concrete block wall was turned into a pile of rubble in a few seconds time, by sustained bursts from an AR-18.



## THE NEWEST INFANTRY RIFLE PROMISES TO CREATE A NEW TURMOIL IN THE ARMED FORCES AND IN CONGRESS WHEN IT COMES TO APPROPRIATIONS

# KIDS AND GUNS GO TOGETHER



Harlan and Tom watch, as Dad "powders" a bird from the station 8 high house, picking up pointers on stance, lead, and follow-through. Inset photo shows results of training as Tom "pops" a station 2 incomer.



Left, boys examine pattern of a new dove load. Above, after shooting is over, each gun is cleaned and oiled.

## TEACH YOUR SONS TO SHOOT AND HUNT FOR A REWARDING EXPERIENCE

By GEORGE C. HOUSE

THESE DAYS, constant stress is placed on family activities, especially those that include the father. Find a youngster beyond the control of his parents, and in difficulty with the law, and I'll lay you odds that he and his dad had few, if any, common interests or activities. The inclusion of your son on your hunting trips, as well as an occasional target shooting session, will be appreciated by him.

It is difficult to find a boy who is not interested in guns, and therefore every shooter and his son have a natural, rapport-building situation just spoiling to be capitalized. Some of my fondest memories revert back to my childhood and my early hunting experiences with my dad. Dad didn't talk about love and affection but he expressed it abundantly to my brother and me by including us in all hunting trips. We loved him for it, realizing that his inclusion of us meant self-sacrifice on his part.

I was playing college football the day my oldest son was born, and the attending physician said, "God, what a fullback he'll make." He gives every indication that he will; also he's a real competitor in Little League Baseball and school athletics. However, I can only be a spectator to this. Right from the start I planned that we'd hunt and shoot together.

I spent hundreds if not thousands of pleasant hours pouring over gun catalogs, brochures, and books so that he (and his brothers) would not only own a gun—but the right gun. My wife and I agreed that we'd buy each boy a shotgun and allow him to hunt at the age of ten. We live in a densely populated area and in the fastest growing city in the U.S.A., San Jose, California. We bought a family pellet gun, and all the boys learned to shoot the gun in the back yard.

Since we could only afford to buy one shotgun for each



Supervised sessions at the reloading bench are enjoyed by both boys; Harlan, left, and Tom.

boy, the gun selected would have to satisfy many needs. First it had to be a gun which would lend itself to proper handling by a ten year old, yet it should serve him well until the age of majority and preferably beyond that. Thus, there was the question of what gauge for a ten year old boy. At first I leaned heavily towards a 12 gauge, since I load my own shells and knew that I could load 1 ounce loads for them as a starter and then increase the loadings as the boys matured. Any decision would have to be based on my own experiences. I stand six feet tall and weigh 225 pounds. I was shooting a 9½ pound, 3" 12 gauge Magnum on wildfowl with great success and a lighter 12 gauge on upland birds. Then I happened to use my wife's 6½ pound 12 gauge pump on pheasants and quail. It was a dream by comparison. Then season after season, it no longer seemed to be as light and fast as it had at first. In fact as I grew older, it sometimes actually seemed heavy by afternoon.

(Continued on page 52)



The collared peccary, or javelina, is tough—on dogs and on hunters.

# Hogs, Dogs & Handguns

By DAN KLEPPER

**KILLING A WILD PIG  
IS EASY IF YOU CAN PIN  
HIM DOWN AND  
YOUR DOGS ARE GOOD**

SOME DAY, one of my hunting companions is going to laugh himself to death, reading about the big calibers that some outdoor writers believe are necessary for hunting javelina—he's killed quite a number of them with a slingshot loaded with ball bearings.

I am referring to the collared peccary, the rather small wild pig found in Texas, Arizona, New Mexico, and throughout much of Mexico and Central and South America. Reference books tell us that the larger white-lipped peccary, which ranges from the rain forests of Mexico, south, is much more aggressive and dangerous. I wouldn't know, I never met one. But the animal's smaller cousin is neither aggressive nor dangerous—most of the time.

It is not my intention to berate these little brush pigs—far from it. These fine game animals deserve respect from any hunter, since they are capable of shredding a man's leg or arm. In fact, they have done it—though documented attacks on man are extremely rare.

And it is possible to kill one with a .22 rim-fire gun—almost all of the time. All you must do is ram the muzzle of a .22 caliber pistol just below the hog's ear and pull the trigger. How do you get the muzzle that close without losing a hand? Place your foot, preferably a heavily booted foot, firmly against the pig's almost non-existent neck and pin it to the ground. And that's all there is to it; except, of course, getting within kissing distance of the javelina. That's not too difficult, if you use a hog dog—man's best friend and the javelina's traditional enemy. This, then, is the way many native Southwesterners hunt javelina. And, contrary to what you might have read or heard, they find the handgun the most practical firearm to use for this type of hunting.

Seldom do I shoot a pig . . . except with a camera. And then I try to do my photography from a tall rock. "Height

always gives a javelina picture better perspective . . ." at least that's what I tell my companions. Actually, I am not particularly interested in becoming intimate with a crowded, cornered, or wounded javelina. It's not that I'm afraid of them—it's just that I take my own advice and treat them with the respect they deserve.

It's easy to understand how the many stories concerning the ferociousness of these animals originated. The javelina is, to be sure, a formidable looking and acting creature. Both boars and sows are equipped with upper and lower tusks, either straight or slightly curved, from an inch to two and a half inches in length, and sharp! The uppers rub against the lowers, and this continuous whetting action produces needle-tipped tusks with razor-sharp edges.

The stories about javelinas "treeing" hunters usually are nothing but exaggerations, or incidents involving hunters



A herd of six javelinas streak through the patches of thorn covered brush—pursued by a pack of hog dogs in full cry.

Well-trained hog dogs can "worry" a javelina for some time, giving you the chance to get in a killing shot—on the pig.



Big Mike, Tommy Timmerman's hog dog, keeps an eye on the pig, in case the boot should slip from the hog's neck. Tommy almost always uses a .22 automatic on the javelinas.



Three of the author's favorite handguns are pictured here. From top to bottom they are: S&W K-38; Colt Woodsman .22; and a .45 caliber Colt Single Action.



Left, a young sow, captured alive, was given to a local zoo. Right, Duane Holloway, an Arkansas duck hunter, examines the wicked looking tusks of one boar he killed.



Trail scooter serves as handy transportation for Chuck Cadieux, of San Antonio, and his two fine javelinas.

## Hogs, Dogs & Handguns

thoroughly unfamiliar with the animals. In most cases, when these nearsighted pigs burst from cover, two or three invariably race toward the hunter, who doesn't realize that this is a natural occurrence.

The hunter usually enters the dense thicket—the hogs' preferred habitat—by the path of least resistance, such as a game trail. Pigs disturbed in the thicket attempt to leave along these same trails of course, and the hunter, seeing himself on a collision course with advancing javelinas, hies himself up the nearest mesquite tree, and much later contends that the savage animals "charged" him.

Though I have never seen a man seriously injured by a javelina, one fellow I was hunting with lost a portion of his pants to a set of sharp teeth. Another hunter, with a hefty rear end, was backed into a prickly pear cactus by an enraged sow. Fortunately, one of the three dogs we were using sank his fangs into the sow's rump and distracted her long enough for the hunter to disengage himself from the cactus. Both he and the sow suffered not only embarrassment, but sore rears.

Anything I say in defense of the javelina does not apply to those raised in captivity and considered pets. From past experience, I am firmly convinced the so-called pet javelina is one of the most unpredictable, belligerent, vicious animals man has attempted to domesticate. The wild javelina, on the other hand, is shy and elusive. The brush-infested country of South and Southwest Texas harbors a rather large population of the animals, but you can hunt for days without sighting one.

Deer hunters, who take stands in the brush, kill quite a few of the pigs, but for the most part, they are taken as an incidental trophy.

One afternoon last December, for example, I was hunting near the Rio Grande. From my stand in a gnarled mesquite, I spotted almost two dozen javelinas, feeding on succulent pear pads in a whitebrush draw. I hadn't seen a decent buck in two days, and decided to take a shot at a large boar standing to one side of the herd. I put the crosshairs of the scope just back of the pig's shoulder and squeezed off—it was a perfect miss. The hogs stampeded over a ridge toward the next draw. It was still too early in the afternoon for deer to start moving to any great extent, so I elected to try stalking a pig, something that's next to impossible in the thick brush.

I was packing a .38 Special revolver for rattlesnakes, so I left the rifle near my stand and began the "stalk," making almost as much noise as a bull elephant in heat—at least it seemed so to me. I caught up with one javelina just over the ridge, and didn't realize it until I was within a dozen feet of the big boar. He didn't chomp his teeth, emit his musk, or move. His black hide blended perfectly with the dark shadow of a *huisache*, and we stood there staring at each other for at least half a minute before I managed to put a 146 grain semi-wadcutter bullet into his brain, entering over his left eye.

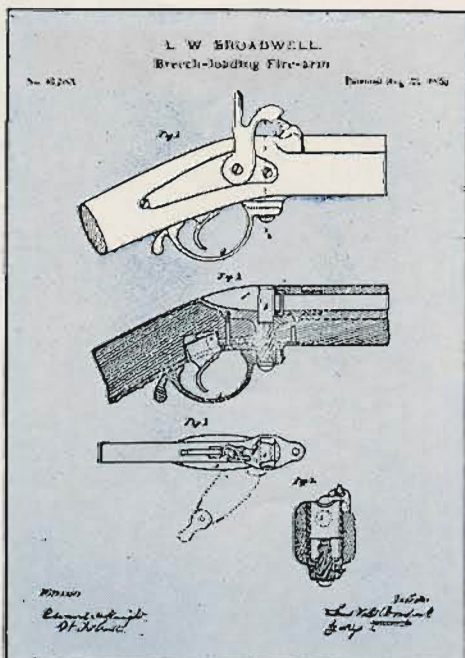
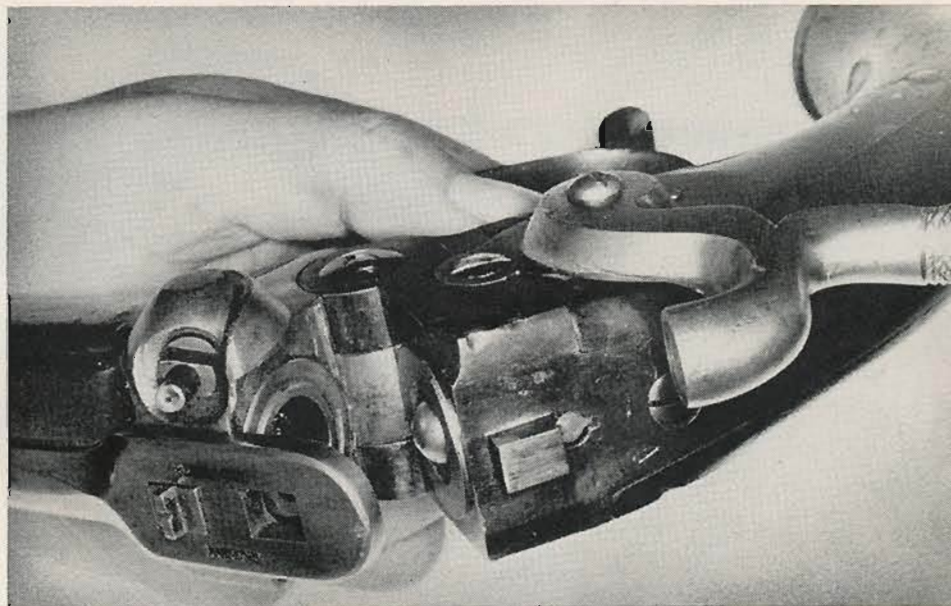
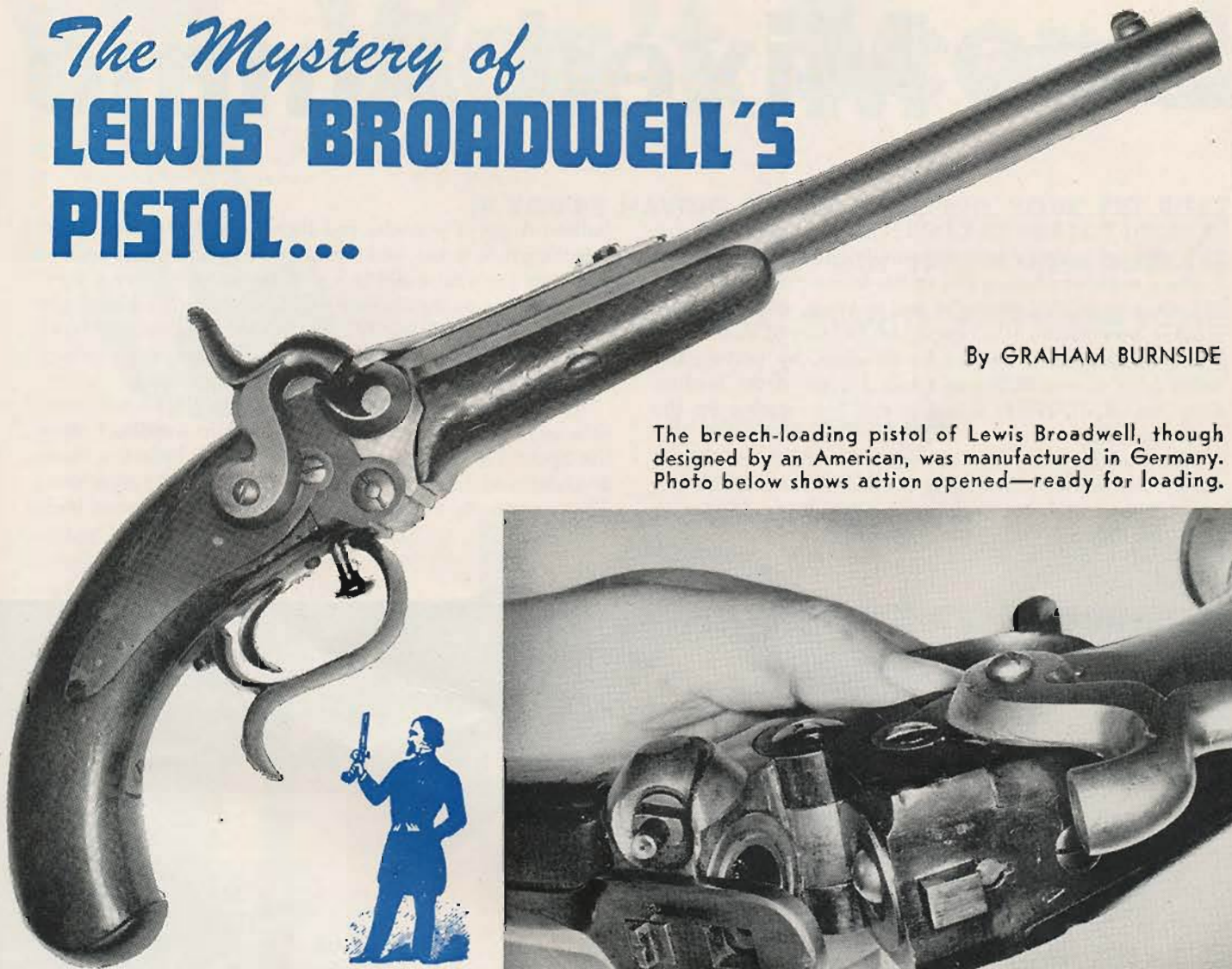
At the sound of the shot, javelinas burst through the brush in almost every direction—I had wandered into the middle of the entire herd. Incidentally, none charged.

But if you want a good javelina trophy, plus the excitement of the chase, follow the hog dogs. They usually make the difference between a successful (Continued on page 47)

# The Mystery of LEWIS BROADWELL'S PISTOL...

By GRAHAM BURNSIDE

The breech-loading pistol of Lewis Broadwell, though designed by an American, was manufactured in Germany. Photo below shows action opened—ready for loading.



Lewis Broadwell's patent for breech-loading carbine offered to the South.

EVERY ONCE-IN-A-WHILE a firearm, or some fact about a firearm, comes along that either upsets the conventional apple cart, or in some way adds just enough knowledge to force us to re-evaluate that which we had previously taken for granted.

Such a thing happened to me when I saw the pistol shown above, which employs the same breechloading system as found in the Civil War carbine that was patented by Gilbert Smith of Buttermilk Falls, New York. To find a pistol of the Smith pattern is noteworthy in itself, and if the piece were marked as a Gilbert Smith product, we would certainly have an outstanding, unusual, and very valuable American firearm.

At first glance, this single shot percussion breechloader appears to be a product of foreign manufacture, and subsequent examination disclosed that indeed the piece is not American. The wood appears to be European; the fit and finish of the metal parts is not up to the standard of quality that one would expect—even from military arms of the Civil War.

It could be explained that it is nothing but a foreign copy of the Smith mechanism, and the mark on the barrel of a crown over a letter typically German would reinforce such a conviction. The general style of the hammer, grip, and trigger guard also show the characteristic features of a German firearm.

Then comes the problem! On top of the spring-latch that locks the breech, are found the words "Broadwell Patent". (Continued on page 43)



# Mixed Ammo

**N**EARLY EVERY ONE OF US has been guilty, at one time or another, of unknowingly causing our pet gun to shoot anywhere from a few inches to several feet off zero. We accomplish this dastardly act in many ways. By purchasing ammunition of different makes, types of bullets and bullet weights or, if we are handloaders, by putting too much faith in our ability to remember all of the loading data instead of clearly marking this information on the cartridge box.

When buying new ammunition, it is sometimes difficult for the few-times-a-year hunter to recall if the half-full box of cartridges at home is loaded with 180 or 150 grain

bullets. A guess is made, and there is a 50-50 chance that it is the wrong guess, and our hunter now has mixed ammo, and is set for what could be a disappointing hunting season.

In addition to the obvious problems that arise when your gun is not zeroed in, different bullet weights and types react differently on animals, and the inadvertent switching of bullets could produce unexpected results.

At one time I was quite happy with the big wound channels and deer-stopping power of a certain handload using the Speer 150 grain round nose bullet. A little too much boasting, and one of my friends said, "You gotta show me." The opportunity came when we spotted a three-point buck



The author studies one of the targets fired in elaborate "mixed ammo" tests. Rifle is a Remington Model 700, in 7 mm Magnum. Target shows wide spacing of groups from two different bullet weights in both 7 mm and .30-06 calibers.

# Won't Score!

**IF YOU'RE HAVING TROUBLE KEEPING YOUR PET RIFLE  
ZEROED IN, SORT OUT THAT CONGLOMERATE  
OF DIFFERENT BULLET WEIGHTS, MAKES, AND LOADS**

By WILLIAM SCHUMAKER

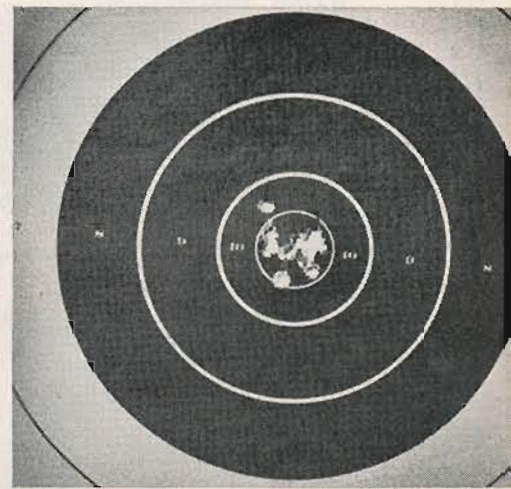
about 100 yards away. At the rifle crack, the buck flinched lightly and sped away into cover. As I listened to my friend's snide remarks, we heard the deer pile up some 80 yards away. Examination revealed a good heart shot, but nothing of the large wound channel I had expected.

I later discovered that some time prior to this hunt I had been using some 180 grain Ackley controlled expansion bullets but, because control was too great, I had stopped using them for deer loads. It was obvious, then, that I had mixed a few remaining rounds loaded with these bullets with my newer loads, the points of the bullets being quite similar.

Since the average hunter is not a gun technician or ballistician, he is often baffled as to why mixed ammo causes these problems. Briefly, it is mainly a matter of barrel vibrations. Bullets leave the muzzle at various stages of vibration, with the barrel actually pointing in a slightly different direction. Velocity changes, bullet design, and other unseen gremlins all work toward scattering the point of impact. Some of the reasons for these problems have not yet been discovered or solved by the experts, so the best the average shooter can do is be aware that the problem does exist, and be sure that his rifle shoots where he aims it with each load he uses.

Over the past years, I have sighted in hundreds of rifles for my customers, who often supply the ammunition to be used. In a good many cases they hand me a mixed lot of bullet weights, makes, etc., the explanation being, "Sight 'er in with this old stuff, and I'll buy a new box to hunt with." This may be fine for saving money, but it could mean the difference between a hit and a miss in the field.

There are, in commercial .30-06 caliber alone, 110, 125, 150, 180, and 220 grain bullets. Rifles are as individualistic as humans. A few will digest such assorted fuel with fairly consistent results, but this is quite unusual. Even at 50 yards there is often a big difference in point of impact from one bullet weight to the next. (Continued on page 54)



These two groups were shot with a Model 34 Remington equipped with a 4X Bushnell Banner scope. At left, shot with .22 Shorts, Longs, Long Rifle, hollow point and solid. Right, group made with .22 LR HP ammunition.



Three types of factory .30-30 ammunition, from 94 Winchester at 50 yards, gave point of impact span that could cause a miss on game at 100 yard range.

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Cal. 9MM Parabellum



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**RARE ORIGINAL ACCESSORIES!**  
Original Black LEATHER Deluxe Holster & extra Magazine Pocket \$4.95!

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**FREE!** • New Leather Holster with Magazine Pocket!  
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## ASTRA MODEL 3000!

BRAND NEW!

Cal. .380

Almost too good to be true—but here they are—Model 3000 ASTRA pistols in the extra popular .380 caliber and BRAND NEW. An absolute give-away for you who demand something BRAND NEW at a "surplus" price—priced so fantastically low only because of huge Spanish shipment. Features the thumb AND grip safety, plus internal hammer. The pistol that EVERYONE would LIKE to own but only the first several thousand orders accepted—so dash yours off today. Remember, these are Brand New!

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**FREE: EXTRA MAGAZINE**

## M.A.B. MODEL GZ AUTOMATIC!

BRAND NEW!

Cal. .22 L.R.

Superb NEW French production M.A.B. .22 Caliber Automatic pistol. Latest, modern design combined with tested dependability makes this the most attractive dollar for dollar pocket pistol on the market today. Light-weight, fast-handling and accurate. An outstanding quality pistol at a reasonable price and BRAND NEW! Strictly factory new, complete with cleaning rod and official French registration certificate included. A fine buy.

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**\$34.95!**

## BROWNING .32 AUTO!

Cal. .32 ACP



The superb, unequalled Browning .32 Automatic in the latest (M22) model—mfg. by Fabrique Nationale d'Armes de Guerre, Liege, Belgium. BROWNING—the greatest name in automatic pistols—design and production excellence at its best! All in the popular .32 Auto caliber and in very good condition at only \$26.95. Some excellent \$30.00 additional. Has the improved extra capacity 9 round magazine, the greatest magazine capacity of any .32 ACP pistol! Insist only on the finest—make yours a BROWNING! (Extra magazines \$2.95, cleaning rods \$5.00.)

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## MAUSER HSc AUTOMATIC!

Cal. .32 ACP

The very latest, improved genuine MAUSER .32 ACP Automatic. Manufactured as late as World War II by the great Mauser Works at Oberndorf. The most modern of the entire Mauser series with single and double action operation and ultra modern design. All guaranteed with Excellent barrels and fine rust proof finish. Perhaps your very last chance for the buy of your time. All pistols NRA GOOD or Better. .32 ACP ammo only \$6.00 per 100 rounds. Extra magazines only 3.95 each!

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## RARE MODEL 1940 LAHTI!

Cal. 9MM Parabellum



Original Model 40 LAHTI Pistols—designed by the famous Finnish weapon designer Aimo Lahti and manufactured by the great Swedish Arms Factory, HUSQVARNA. Monogram of this beautiful Swedish emblem embedded in grip. ALL NRA VERY GOOD and ALL accessories listed below included FREE. Some NRA EXCELLENT only \$10.00 more. 9MM Parabellum ammo only \$4.00 per 100.

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**\$59.95!**

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## RUBY .32 AUTOMATIC

Cal. .32 ACP



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ONLY  
**\$17.95!**

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Cal. .32 ACP

A favorite of the grand old man of France—this rugged French model UNIQUE also became a favorite of the Germans in World War II—so much that they pushed large scale production. Featuring a large nine shot magazine this potent pistol was made to exacting standards for use by the Germans and for commercial consumption. A "ever" type safety placed convenient to the thumb. Complete with high impact plastic grips, this pistol is offered in NRA good or better condition for only \$19.95. Extra magazines only \$2.25 ea. Order now!

ONLY  
**\$19.95!**

## FRENCH M.A.B. MODEL D!

Cal. .32 ACP



A premium pistol of truly modern style and design. Clean post-war lines with proven construction at a price unbelievably low—only a meager \$22.95 and in NRA Very Good condition. The dollar for dollar bargain of the day that will never again be matched. Features both handy thumb safety and extra safe grip safety. Full nine round magazine capacity. A pistol you need not be ashamed of in ANY company—a perfect utility side-arm to complement your collection. Be among the first. Order now!

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**\$22.95!**

## SMITH & WESSON .455 REVOLVERS!

Cal. .455



Heavy duty Smith & Wesson Revolver in .455 caliber. Superb pre-war workmanship with commercial and walnut grips with GOLD monogram and only \$29.95 in VERY GOOD condition. Some EXCELLENT only \$50.00 more. A few Triple Locks at only \$10.00 more.

ONLY  
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## COLT NEW SERVICE REVOLVERS!

Cal. .455

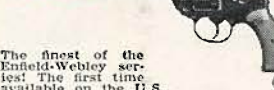


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**\$29.95!**

## ENFIELD No. 2 MK I REVOLVERS!

Cal. .38 S & W



The finest of the Enfield-Webley series! The first time available on the U.S. market. The model that superseded the Webley MK VI. Shoots the standard .38 S&W cartridge both single and double action. NRA GOOD condition and only \$16.95, some NRA V.G. \$3.00 more!

ONLY  
**\$16.95!**

## ENFIELD COMMANDO REVOLVERS!

Cal. .38 S&W

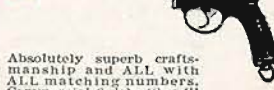


The handgun bargain of all time. Genuine, ordnance built, time-tested, Enfield Commando Revolvers. Carried in World War II by the illustrious battle-worn Commandos. Chambered for the popular .38 S&W cart. NRA good!

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## SWISS ARMY REVOLVER!

Cal. 7.5



Absolutely superb craftsmanship and ALL with ALL matching numbers. Commercial finish, "bead" type front sight. Imagine, NRA Very Good condition and only \$16.95. Some excellent only \$30.00 more. New 1960 production 7.5 Swiss Revolver ammunition only \$3.95 per 40 rds.

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Cal. 8MM

## MODEL 98 "ARCTIC" MAUSERS!



The model you've been clamoring for all these years—the model that broke ALL sales records in 1960! SPECIAL M98K Mausers (World War II type) designed for "Arctic" use. The Mauser designed to insure Wehrmacht invincibility—had it arrived in time. Special over-size trigger-guard for "fumble proof" speed with (or without) your favorite mittens. Stare down that charging grizzly with complete confidence. Standard 8MM caliber, 24 inch barrel, modern turned down bolt handle—all for only \$26.95 in NRA GOOD condition. Some hand selected—practically new only \$5.00 more. Bargain 8MM military ammunition only \$4.00 per 100 rounds. A unique opportunity for a fine M98 Mauser! Order yours while huge supply lasts!

ONLY  
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NEW MAUSER  
LEATHER SLINGS \$1.95!



### WORLD WAR II GERMAN MODEL 98K MAUSERS!

Cal. 8MM



ONLY  
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World War II type, with 24" barrel. Those with milled type Trigger Guards ONLY \$3.00 more. ALL carefully stored and guaranteed in NRA GOOD condition. Be sure and take advantage of our top-grade 8MM ammunition at the ultra bargain price of only \$4.00 per 100 rounds. PAY FOR YOUR RIFLE WITH AMMUNITION.

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### MODEL 43 (M98) MAUSERS!

Cal. 8 MM



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WW II M98K type. Manufactured in Spain AFTER WW II—some as late as the mid 50's. ALL with ALL milled parts. ALL with 24" barrel. ALL arsenal reconditioned, rebuffed and refinished. ALL complete with original cleaning rod and muzzle cover. ALL guaranteed NRA VERY GOOD to much better. 8 MM Ammunition only \$4.00 per 100 rounds!

Original bayonets only \$1.95!



### PERSIAN M98/29 BRNO MAUSER CARBINES!

Cal. 8MM



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The great M98/29 Brno Mauser Carbine! Every desirable Mauser feature wrapped up into one unit. Has the custom type turned-down bolt handle with the knurled underside—also the exotic saddle ring. All in good or better condition at only \$34.95. Bayonets with scabbards only \$1.95. Avoid bitter disappointment. Order yours now!

NEW LEATHER SLINGS \$1.95!

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Cal. 7.62 Russian



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### M1938 RUSSIAN CARBINES!

Cal. 7.62 Russian



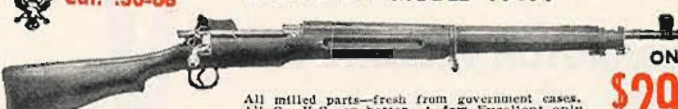
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Still another exciting Western purchase of Eastern exotic—the one and only M1938 Russian Carbine. One of the very last models of the stalwart Mosin bolt action series. A true Carbine with 20" barrel. Worth double on the collector market in any condition, but yours complete and in good shooting condition. All in GOOD condition with boxes very good! A unique opportunity!



Cal. .30-06

### U. S. ARMY MODEL 1917!



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All milled parts—fresh from government cases. All c. V.G. or better. A few Excellent only \$5.00 additional. Genuine new Webb Slings \$1.00—used .50. The world's strongest bolt action! Order yours today. If you prefer Remington or Winchester manufacture, a limited number \$3 more.



Cal. .30-06

### WORLD RENOWNED U. S. SPRINGFIELDS!



High numbers  
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IN STOCK! All in very good or better condition! The greatest of them all, the INCOMPARABLE Springfield at the lowest price ever — for high numbers. These are NOT the crude, makeshift assembled jobs advertised by others: these are NOT the left-overs rotting in steaming South American jungles, but original Springfields in the finest condition ever. HIGH NUMBERS only \$39.95. HIGH NUMBERS WITH TARGET TYPE C STOCK \$42.95! New web slings \$1.00. .30-06 ammo \$6.00 per 100!



Cal. .303

### ROYAL ENFIELD No. 4 SERVICE RIFLE!



ONLY  
**\$18.95!**

Superb Royal Enfield No. 4 Service Rifle—pride of the British Empire—used in front line service as late as Korea—many still in use. Strictly a NEW lot, all carefully inspected and cleaned prior to shipment—not the over-worn grease covered leftovers as available previously. All in good or better condition and a few VERY GOOD only \$4.00 more. Prong Bayonets only \$1.00 when ordered with rifle. The very finest.



Cal. .303

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The final solution to all your shooting desires. A REAL professional conversion of the light-weight No. 1 Mk. III performed by the world-famous Cogswell & Harrison gunmakers of London. Completely refinished and rebuffed with sporter ramp front sight, sporter swivels and sporter type black forearm tip. The best dollar for dollar buy ANYWHERE. Insist only on a Cogswell & Harrison conversion—the marvel of our age!



Cal. 7.5 Swiss

### MODEL 1911 SWISS RIFLES!



ONLY  
**\$13.95!**

THE RIFLE OF THE MONTH! Gigantic NEW shipment of the superb Swiss Model 1911—Switzerland's finest—not to be confused with the old Model 1889 advertised elsewhere—above all, not to be confused with the un-standard, cumbersome, inaccurate short version (a Ye Old Hunter reject) which others may have the gall to offer. Insist only on a genuine 1911 Swiss—the rifle that insured Swiss neutrality. (Original bayonets only \$1.95!) NEW 7.5 Swiss Soft Point ammo only \$5.00 per 20.

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9MM Steyr Pistol (M.C.)	\$4.00
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New production KYNOCH 9 X 57 MAUSER Soft Point ammo (245 Gr.) ONLY \$3.50 per 20 Rds. (Almost half-price)

SPECIAL!



IN STOCK! The new INTERARMCO-NEW F.N. produced soft point ammunition at a low \$3.90 per 20 rounds. The hunting ammunition price barrier broken at last!

NEW production—150 grain expanding bullet — non-corrosive, non-mercuric boxer primed — extra strength case shoulder annealing.

Special KATANGA KOPPER for EXTRA long use.  
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# WHAT'S NEW

## REMINGTON PRESENTS A CALIBER, RIFLE, AND PLASTIC SHELLS

By E. B. MANN

**E**DITING A gun magazine has certain undeniable advantages. This is acknowledged by the editors who are on the magic list of invitees to the annual Winchester and Remington Seminars, events that have become red letter days on our calendars. The primary aim of these meetings, from the standpoints of hosts and guests alike, is the dissemination of still top secret news about forthcoming products—to familiarize the editors with the developments about which they will be reporting to you as soon as they are permitted to do so. But a by-product of the seminars is some of the best shooting in the world, in association and in competition with some of the world's best (and certainly best known) gun sportsmen.

We met first with the Remington people, congregating at Great Oaks Lodge, a club-motel facility located only a few miles from Remington Farms, the company's game research and development project near Chestertown, Maryland. Remington hospitality was at its best, and the shooting (ducks and geese) was the stuff of which hunters' dreams are made. But the Remington showcase of new developments for 1964 was exciting also.

The item that caught the personal fancy of this western-slanted observer was the all-new Remington Model 600 center-fire bolt action carbine. This is a sweet-looking, sweet-swinging piece that should delight the growing multi-



Remington Model 742 (left) has checkered stock. Right — the all-new Remington Model 600 carbine.

tudes of hunters who want a lightweight, easy-to-carry, easy-handling rifle in calibers (.35 Remington and .308 Winchester) suitable for big game and also for varminters in the pace-setting .222 Remington.

The Model 600 weighs only 5½ pounds (give or take a couple of ounces for differences in wood), and its overall length of 37½ inches makes for easy handling in the brush and easy carrying in a saddle scabbard, car, or pick-up truck cab. The designers had the saddle scabbard in mind also when they shaped the bolt handle, snugging it in against the stock; this is the same bolt handle as used on Remington's XP-100 pistol.

The ventilated rib, "custom" checkering, and the Monte Carlo stock of American walnut with pistol grip and smoothly tapered fore-end, give the Model 600 a real look of quality that is backed up by functional excellence. The bolt encases the cartridge head completely; the barrel is free-floating; the trigger is crisp, with no creep, and factory tests show excellent accuracy. This was confirmed by my own shooting, in which 100 yard accuracy closely approached, even equaled, that of good full-scale rifles.

New calibers and a "new look" are being added to many of the old favorites in the Remington line. Remington fine-line checkering is now being used on the stocks and fore-ends of the Model 742 "Woodsmaster" automatic big game rifle, on the Model 760 "Gamemaster" pump action big game rifle, and on the Model 11-48 automatic shotgun.

The Model 742 comes in four calibers: 6 mm Rem., .280 Rem., .30-06, and .308 Win. There is a carbine version in the .30-06 and .308 calibers. The Model 760 is offered in six calibers: the new .223 Rem., the .280 Rem., .270 (Continued on page 53)

# FOR '64

## IMPROVED SHOTGUNS AND RIFLES, IMPROVED HULLS ARE THE NEWS FROM W-W

**I**MMEDIATELY FOLLOWING the Maryland meeting, we flew to the Winchester Seminar, at the Riverview Plantation near Camilla, Georgia. Here again, hospitality (southern style, complete with fried chicken, catfish, and hushpuppies) was unlimited, spiced with bobwhite shooting the like of which none of us had ever seen equaled. But it was not all play and no work here, either. Briefing sessions and field-shooting tests of Winchester's 1964 guns convinced us that the design and development people at New Haven had been busy. Some of the news from New Haven is still labeled "Top Secret" as this is written, but here is a fast run-down of the items on which releases have been cleared.

The Winchester Model 70 bolt action rifle has been on the best-seller lists for many years, in many calibers; but success has not persuaded the Winchester people that there was no room for improvement. The new look of the Model 70 is apparent in its portrait; but not all of the changes are external. Winchester lists the following new features:

1. Stronger action; engine-turned bolt, recessed to enclose cartridge head completely.
2. Breech bolt sleeve cap; arrests possible gas blowback.
3. Cocking indicator.
4. Free-floating barrel (except on .375 and .458 calibers).
5. Detachable front and rear sights; simple removal to mount scope.



Winchester's Model 1200 at left.  
Right — new, improved Model 70.

6. New stock design: high break-away Monte Carlo comb, pistol grip cap, checkering added to under side of forearm.
7. New, wider, serrated trigger.
8. Dull finished receiver, eliminating light reflection.
9. New high-gloss stock finish.

Prices on the improved Model 70 start at \$139.95.

Another "new" from New Haven is the Model 1200 slide action shotgun in 12 and 16 gauge. We shot samples of this gun at Riverview: a smooth-working, good looking shotgun of typical Winchester quality, weighing 5¾ pounds (in 12 gauge, with 30 inch barrel), with a five-shot capacity.

The Model 1200 has a rotating bolt head which locks into the barrel, like the locking system on the Winchester Models 88 and 100 center-fire rifles. The bolt is engine-turned; barrels are interchangeable; the receiver is aluminum alloy. The slide employs twin arms for smooth action, and shells can be unloaded directly, without working them through the action. Rubber recoil pad is standard equipment, as are fluted stocks with capped pistol grips. A new high-gloss finish is used on the wooden parts. The price is \$96.00.

Also new are the Models 255 and 275 rifles in .22 Winchester Magnum rim-fire caliber. These are versions of the Models 250 and 270 lever and slide action .22s, with changes necessary to fit them for this "junior varmint" cartridge. Prices, for the Model 255 pump, \$59.95; for the Model 275 (available only with wood forearm) also \$59.95.

From Winchester too, the big ammunition news for '64 is in shotshells. Winchester-Western presents a new line of plastic shells which, they believe, will solve all of the shotshell problems, (Continued on page 51)



# Pull!

**BY DICK MILLER**

**I**NTERNATIONAL SKEET and trap, after a slow start on this Continent, have gained considerable momentum in the last year. This column does not propose to plug either of the International versions of clay target games at the expense of the home-grown varieties, but I will try to keep readers informed concerning some very definite trends.

Most of the support for, and interest in International skeet and International trap seems to come from shooters with either of two viewpoints, and, perhaps a blend of both.

One school of thought holds that we ought to give more attention to the clay target games as they are conducted under International rules so that we can come up with better performances in such sensitive areas as the Olympic Games, Pan-American Games, and International Shooting Union events.

Although a very sincere effort is made to divorce these sports championship events from power politics and nationalist philosophies, it is nearly impossible to avoid some sense of national pride and inevitable comparison with the performances of Western nationals in shoulder-to-shoulder competition with representatives from other nations or blocs.

Strenuous efforts by military and civilian agencies have improved the performances by shooters from our so-called "nation of superb marksmen" in recent years. In the opinion of many connected with the shooting sports, much more remains to be done.

The non-political or non-national school of thought with regard to the clay target games under International rules and over International ranges says simply that the games are fun, and a welcome change from domestic skeet and trap, with their high scores, and rules favoring the shooter. In this latter category will probably also be included those who feel that the rules of International shooting more nearly simulate actual field shooting conditions than do the domestic rules.

Scores under International rules are certainly much lower than under domestic rules. The old and often-voiced observation that a hundred straight will only get you into a shoot-off is not true in International games. One hundred straight will get you a piece of the world record, and almost insure your ticket to the Olympic Games.

As matters now stand, the only serious barrier to even more explosive growth of the Continental or world-wide clay target games in this country is the lack of shooting facilities.

The lack of facilities or shooting ranges is more easily overcome in skeet than in trap. International skeet is fired over virtually the same lay-out as is ours. Skeet shooters who

learned the game in the thirties, as did the writer, can make the adjustment to International rules with comparative ease. In the earlier days of U.S. skeet, the gun butt had to be visible below the elbow. Under International rules, the stock must be held at, or touch, hip level. The target emerged during an interval of up to three seconds after called for. This set of rules comes as a shock to, and is obstacle to high scores, for the more recent crop of skeet fans. They mount the gun before calling for a target, and are known to give out with some unprintable remarks concerning the puller, if a target does not arrive instantly on command. The International skeeter has to be "steady to point," as dog lovers would put it. And, that three second interval can feel like 30 seconds when you are all alone on a shooting post, waiting for the moment of truth when a target is at last airborne.

Existing skeet fields can add the International game by either dusting off the old variable timer, if the club has one laying in the storeroom, or buying a new one.

International trap presents much more of a problem for lay-out, gun, and ammunition, plus a few concurrent problems such as shooter's sensitivity to the recoil of heavier loads, reaction time to faster targets, and long-range shooting ability.

To begin the equipment picture, an International trap field requires a total of fifteen traps to service one shooting field of five positions. There are three traps at each of the five posts.

Domestic trapshooters are accustomed to targets that fly at very uniform heights. Any shooter who has been present at the opening of a domestic registered trapshoot is familiar with the care taken that targets fly within inches of the same height on every field and for every shot.

Under International rules, your first target may fly three feet above the ground, at a point eleven feet from the trap, or it may fly as much as thirteen feet above the ground. The bird may fly at a rate of 100 miles per hour when you first see it, and it may fly half again as far as the domestic trap target.

The shooter does get two shots at the target, or more precisely, is allowed two shots at the target. Shooters weaned on domestic trap sometimes find that things have happened so quickly that the second shot becomes an empty advantage.

Because of the great target speeds and distances, especially for the allowed second shot, it is necessary to use heavier loads than our regulation trap loads, and this tests the shooter's ability to tolerate increased recoil.

Shooters do not get the feel of a given post as readily, because they fire only one

shot at each post before moving to the next, as compared with five shots from each post in domestic trap. The domestic trapshooter is permitted to yell "foul" (and may be given another target) if his target veers at an angle of more than 22 degrees from center. International targets are legal with 40 degrees from center.

Personal note: I was inclined to yell "foul" for every target I was thrown on a closely-simulated International lay-out but, it was fun and this version can get in your shooting blood.

For obvious reasons, most International events are shorter programs than the domestic variety. Most programs are fifty target events, and few if any are more than one hundred. Events of 100, 200, 300 and even 500 shots are not at all uncommon in domestic trap. As mentioned earlier, and in keeping with the last observation, scores at International are not high, and over short courses.

One of the shootingest trap clubs in this country, with some of the finest shooters, the Waukesha Gun Club (Wisconsin), recently held a 50-target event, with ninety shooters. The great Vic Reinders, who knows shotgun shooting as well as he knows presenting the formula for H<sub>2</sub>O to his Wisconsin chemistry classes, won the event in a shoot-off with Warren Hallock, 22 to 17, after both had broken 45 of 50 over the 50-target distance. And, some of the names in that 90 shooter entry list are associated with some pretty high trap scores in any event.

I picked out names like Gene Durant, Ted Bachhuber, R. L. Deckert, Julie Deckert, Glen Everts, Frank Gehringer, Bill Brauer, Jim Hurlbert, and some others who would be good bets in any domestic trap race.

On the skeet side of the ledger, I note that the "Skeet Shooting Review" has set up a special listing for International-style events.

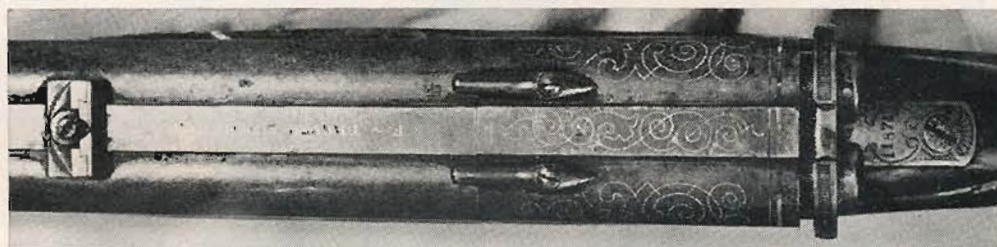
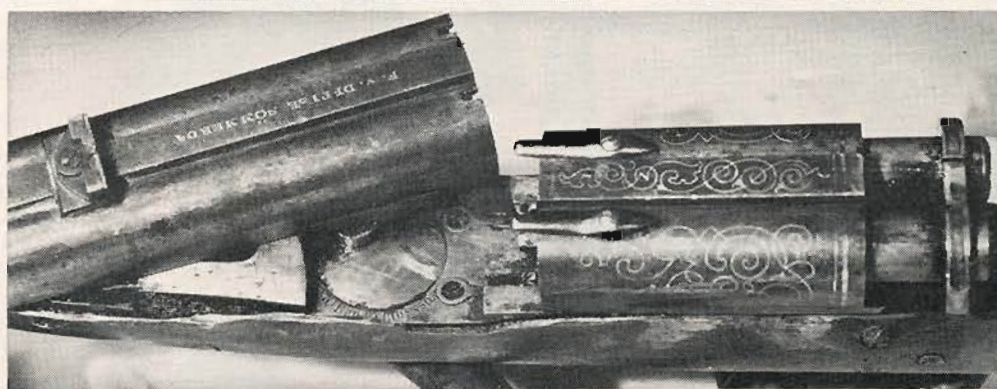
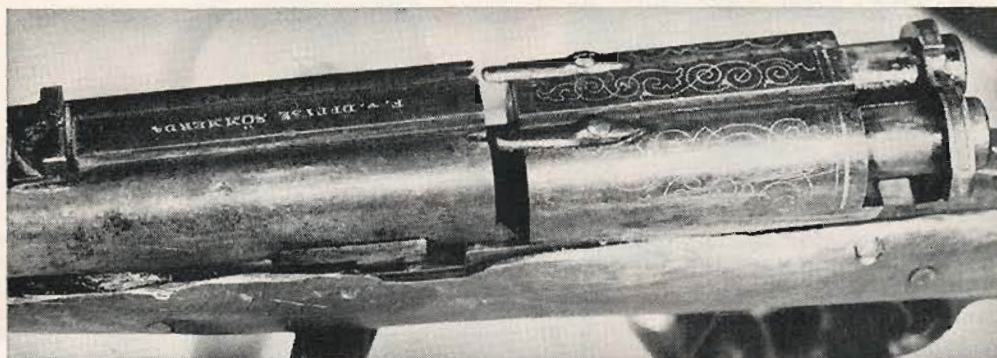
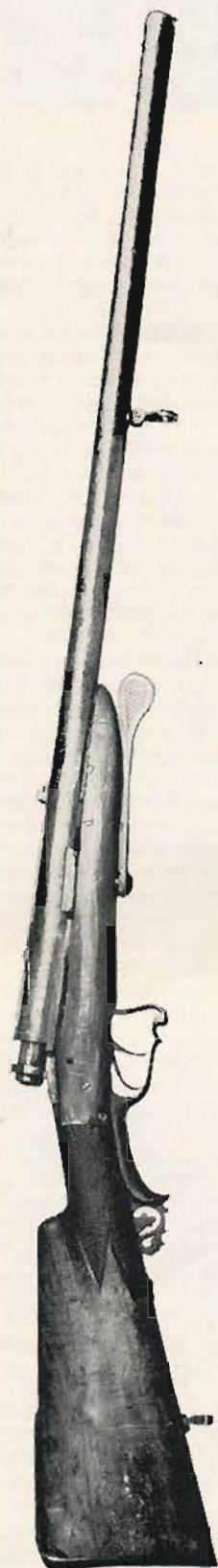
Some of the clubs scheduling the imported version of skeet for 1964 are Ent Rod and Gun Club, Colorado Springs, with International competition scheduled for every month of this year, and the Lost Pond Gun Club, Norwich, N. Y., with a repeat of last year's International program in connection with the New York State Championships, June 27-28. The Palm Beach Gun Club (Florida) scheduled an 100 target event in February, and Holladay Gun Club (Utah) offered 50 of the tricky targets in February (Feb. 22 for Utah; Feb. 26 for Palm Beach).

The National Rifle Association, very active in the conduct and promotion of International-type shooting for its members and shooters of all persuasions has printed an illustrated digest of all forms of shooting beyond our borders, and it makes good reading. Included in the NRA handbook (members \$1.50, non-members \$2.50) is information on the handgun and rifle games, which in most cases differ from their state-side counterparts to the degree found in the clay target sports.

It seems that no matter which side of the fence we favor, domestic versus imported shooting events, we need to improve our knowledge of how the rest of the world approaches marksmanship, and as long as we favor clay target games, we will be exposed to more of them under different rules. Should we not learn to participate and collect some glory while we are at it?

# Quality Gun By Unknown Maker

By L. J. BULL



Unusual action of Dreyse is shown with barrels moving forward (top); barrels then swing to the right. Bottom photo shows action closed, strikers in fired position.

**I**N MY JOB as gunsmith for Shaw & Hunter Ltd., Nairobi, East Africa, I see a great variety of hunting guns both new and old. Some time ago, however, I came across a gun of a type that I had never seen before. It had been thrown out as junk, but I retrieved it, and, upon closer examination, found it to be a unique firearm. The fore-end, which had been crudely repaired with copper sheet, looked unserviceable, and that was probably the reason the gun had been junked.

The workmanship of this gun is of the highest order, and the action is as tight now as it had ever been. The left barrel is smooth, but the right barrel is rifled, with four grooves; both appear to be 20 bore, measuring .664 inches. The chambers, however, do not conform to our modern cartridge shape, being made for a rimmed center-fire cartridge about 2½ inches long, but with a diameter about 1/16 inch larger than the case body about ¼ inch from the head.

The barrels are of twist, or Damascus, construction, and are 26 inches long. At the tip of the bottom rib is a small lip, of the style used to retain a muzzleloader ramrod, though there are no thimbles or other provisions for a ramrod. (Continued on page 54)

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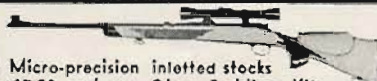


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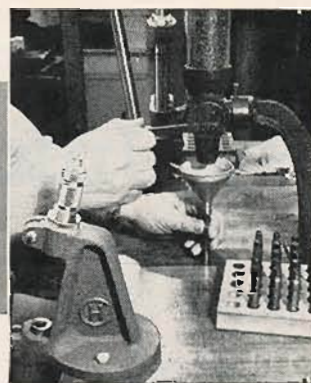
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# HANDLOADING BENCH

By KENT BELLAH



WINCHESTER'S FINE .300 Win. Magnum is sure to kill the ancient .300 H & H, and it's a far better cartridge for reloading. It's also sure to kill medium game at longer range, or big game at normal range. It's an ideal all-around rifle, adequate for anything from little pronghorns 'way across the wind swept prairie up to the largest U.S. game. It bucks wind well enough to clobber varmints where lesser cartridges fail. Case capacity is just right for a hot-shot .30, that is superior to smaller bores for big game.

This "short .30 Magnum" has an advantage over longer hulls. Rounds chamber fast and easy. Extraction is about as easy as operating the bolt with live ammo. W-W made a change for the best in current ammo. Their 150 gr. load is my choice in factory ammo for everything except very large animals. Listed at 3400 fps for 3850 fp M.E., recoil is less than you'd expect. It doesn't jar the fillings out of your teeth. You recover fast for a second shot, that you'll seldom need if you have a decent chance and good scope. Bullets not perfectly placed are apt to put an animal down.

Here's new dope on the cartridge. Groups with the 150 gr. factory load, lot 12UE71, ran near 2.0 MOA (minutes of angle) at 100 yards from my M70 with a new big-nose K-6 Weaver glass. Groups tighten at longer range, as with some other hot-shots. It takes more than 100 yards for bullets to "go to sleep" in true flight as they twist along hell-bent on a collision course. They strike with the fury of a woman scorned. The 180 gr. factory load, lot 14UE51, has practically the same 100 yard center of impact in this rifle.

Current bullets are not lacquered in cases. I like that. The case has a squeezed (collet type) crimp in the single bullet cannellure. It doesn't completely iron out on firing. If a .3085 bullet doesn't drop freely in a once fired case, ream the neck with a Foster Neck Reamer in their case trimmer. Then trim cases enough to barely face-off the mouth, and deburr.

Our best reloads were the Speer 150-6-SP bullet backed with 77.0 gr. 4350 and CCI 250, Magnum primers in Super-X cases, at 3405 fps, and five shot groups at 100 yards averaged under 1.0 MOA. You can use Speer's 165-8-SP with the same charge for 3338 fps, and almost the same accuracy. This bullet is fine for long, sustained velocity, and has the same center of impact at 100 yards in my rifle. You can cut charges 2.0 or 3.0 grains without accuracy loss, and little velocity loss.

Kenneth Shackelford uses my 150 gr. Speer load with 1.0 gr. less powder. Bullet holes generally touch each other at 100 yards. There is no best load in all rifles, but these are hard to beat. Cut charges about 5.0 gr. in Norma brass.

Since the better .300 Win. Magnum came out I'll retire my old custom .300 Apex Magnum wildcat. It was my conception of the ideal .30. The battered but beautiful wood and metal art appeals to me more than the priceless Mona Lisa. It recalls memories of happy days and thrilling moments.

A good 7 mm Rem. Magnum load is 69.0 gr. H-4831 and CCI 250 Magnum primers behind a 160 gr. Speer pill. This is better than canister powders in this big hull. We haven't chronographed it, but it's fast, flat and accurate enough for varmints or game. Work up from 66.0 gr.

To pin-point hits, don't sight-in at the usual 1.5" or 3.0" high at 100 yards. Zero 1.0" high for varmints or 2.5" for big game. For long range you generally have time to set the scope for the approximate range, if you've tested your load at that setting. Don't depend on tables for elevation adjustments. The only way to know where bullets hit at 400 or 500 yards is to shoot targets at that range. Fire at least 20 rounds after final adjustment. Precision accuracy requires a precision zero.

Weaver's new big-nose K-6 scope is excellent for all-around use. The long, non-critical eye relief is an advantage in getting on still or running game fast. It won't gouge your eye with Hi-V hot-shots. Magnification is not too much for close off-hand shots. The field is adequate for running varmints. Click adjustments permit setting for extreme range shots while watching game through the scope. I like it better than a variable for accurate range estimation. I like the constantly centered reticle. The K-6 mount rings are 1/4" higher than normal, so the big-nose will clear the barrel.

Compare this with the old K-6 and you'll want it pronto, and K-4 fans will like it when they try it. Definition is excellent. It seems to illuminate dark shadows where game hides, and game "stands out" or contrasts from surroundings. Glass the terrain and you can spot a jackrabbit with his ears laid back, hiding behind a clump of grass. Weaver scopes have had more improvements over the years than any other make. Current ones are the best ever.

PRE (Progressive Reloading Equipment), 20 Railroad Ave., Roslyn Heights, L.I., New York, has two fine new items. A \$21.50 Car-

tridge Tumbler cleans and degreases ammo, cases or small parts. Weight is 10 pounds, complete with motor, switch, stand, sawdust, shake-out basket, ½ gallon plastic hopper and lid. Directions say to half fill the hopper with sawdust, add 2 oz. kerosene and up to 100 cartridges. Tumble about 15 minutes. You can use any standard wet chemical. Here are tips not in the directions.

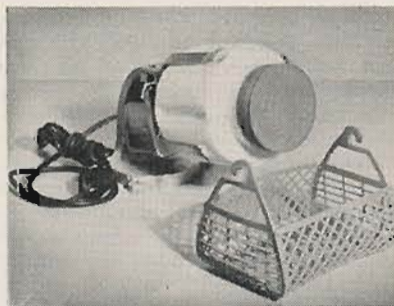
The machine doesn't need to be bolted down, although mounting holes are provided. The hopper rotates 38 rpm for 58 sfpm (surface feet per minute). For greasy bullets add an extra ounce of kerosene. For cases smaller than .38 Special you can form a new shake-out basket from ¼" mesh hardware cloth.

A commercial abrasive in a plastic bag will polish all metals. Or use steel shot as used in industry, or ordinary rice. To speed work, add ¼ can of Bon Ami or other non-chlorine household cleanser. For continuous operation buy an extra hopper. Custom loaders will find that one man can operate two machines with extra hoppers for large volume production.

PRES excellent Fixed Charge Pistol Measure is \$17.50 with a mounting bracket and 2 charge inserts. A \$4.50 stand is handy, and can be used without bolting down. Extra charge inserts are \$1.50 each for 2.5, 2.7, 3.0, 3.3, 3.7, or 4.0 grains Bullseye. Charges are thrown accurately enough for target loads without a scale.

Quick-change inserts are accurately made of .750 x .253 thick brass. If you ream one for a heavier charge or different powder be sure to restamp it. A fine fixed charge measure has an advantage over an adjustable type. It's safer. You get uniform charges with no chance for error. It saves time. This clever design empties the hopper through the clear drop tube, helping to keep sticky powder free flowing. The clear plastic hopper is large. The brass powder slide works smoothly with a pull and push of the handle. Weight with stand is 8 pounds. Workmanship is excellent.

The insert in the measure should always be identified outside. Adhesive tape will do. Or store inserts with the charge written on a string-type price tag looped in the insert. When you change inserts slip the tag over the hopper or under the lid. Then you'll never goof. To keep the hopper crystal clear



insert a rolled up 5 x 7 piece of sheet film in the hopper. A studio will give you a cleared film. This is a good idea with any measure that has a clear plastic hopper.

Good plinking loads with cast bullets cost almost nothing. You can load a thousand for the cost of 100 factory handgun loads! Plinking targets are available every day of the year. A good session is a whole of a lot of fun at very low cost. Riflemen are missing a

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good bet if they don't do a lot of plinking. A good handgunner probably plinks over a thousand rounds for every one he fires at game. No wonder such people are deadly accurate! Big bore rifles can be loaded with cast bullets for as little as 40¢ per box.

Fred T. Huntington, of RCBS, tells me some chaps want sloppy rifle dies that size case necks no more than .003 to increase case life. It won't work! Cases vary too much, especially in different makes and lots. About .006 is minimum for one make and lot, and .010 isn't excessive. I've never found a RCBS die that was too tight or too sloppy. The best dies size necks a bit more than necessary to take care of normal variations and "spring" in brass, and to insure bullets are held tight. Such dies give very long case life.

A little extra neck sizing is desirable. Then cases fail at the mouth as they should, rather than at the vital head, that can damage a rifle badly. It can be serious with modern Hi-V loads. A head failure may blow out the magazine plus other parts, shattering the stock to turn it into toothpicks. RCBS dies are correctly made, and the neck sizing part should not be enlarged. If your case necks are sized too much they should be reamed, or cases discarded.

More than 9 out of 10 rifle failures with "normal" reloads are caused by case head failures. A neck or mouth crack does no harm, except the case is ruined. For extremely hot loads 5 firings are enough. Don't be stingy with brass if you load flat out! Brass varies greatly in quality. A good lot may give over 50 reloads at moderate pressure for that caliber. One or more cases in a good lot may fail the first firing, due to an internal defect, in factory or reloads.

Brass is somewhat like automobile tires. Some may run over 50,000 miles without failure, in light duty use. The same make and type may fail in 3000 miles of hard use and abuse. Tires may have internal defects that cause premature failure in all makes. You can not soup up a .30-06 to obtain .300 Magnum ballistics. If you want higher velocity the best deal is to go to a .300 Magnum. For longer case life you'll reload to a bit less than flat out.

RCBS has a handy new item, not listed in their current catalog. It's a stainless steel powder spoon at about \$1.15, made to dip a bit of powder from the scale pan. You can spoon charges in the scale pan without a measure. It's good for test loads or short runs of pistol charges also. Jiggle the filled spoon until scales balance. Capacity is about 30 grains, heaping full. Bend the handle up or down for the angle you like. This particular stainless steel sticks to a magnet on a shelf edge, a good way to keep it handy.

RCBS will soon have some excellent precision powder scales, worthy of the honored RCBS name. A great deal of research has been done, with numerous changes made on pilot models. The final design is sure to be good. Some really fine reloading items are ex-

tinct because they were not widely advertised. You have to tell the world about a better mousetrap, or other item, before they beat a path to your door! One shotshell loader had much to recommend it. So did one of the best lubricator-sizers ever made, and several metallic presses. You can't get repair parts for these tools. Items you've seen advertised for a long time in this magazine will probably be available for a long time, and parts will be available long after improved models are made. This insures a longer useful life, and a higher resale value.

Rex D. Sowle, Sowle's Guns, Nokomis, Florida, has loaded precision ammo since black powder days. His .45 ACP target load is a H & G No. 68 bullet backed with 3.5 grs. Bullseye. After a vacation he returned to his shop and loaded 200 rounds. Some gave a light report and printed low. Then "one sounded like a .44 Magnum." He found a spider web in the measure drop tube had caught part of each charge. When the weight of the trapped powder broke the web a heavy charge was dumped.

Mr. Sowle's S & W 1955 .45 Target took the overload without being damaged. He now covers the drop tube when the measure is not in use. This rare incident is worth remembering.

When you first fill a measure it's a good idea to weigh a couple of charges. If it's an adjustable measure it's a good idea to weigh



the last two charges, as the adjustment could change. When I charge a block of cases I always examine them under a good light.

Visual examination will permit you to detect charges that are considerably over or under normal by comparison. A more accurate way is to use a wooden dowel nearly as large as the case, and a bit longer. Paint a band on it, so about 1/8" is exposed when the gauge is dropped in a charged case. Light charges expose no band. Over charges expose considerably more band. You can gauge 50 rounds in less than 2 minutes.

For average varmint hunting I like a .357 Combat Magnum sighted dead on at 75 yards for hot loads. Then you can hit to about 100 yards, but you should check the center of impact at 38 and 100 yards. Zero with a two-hand hold, resting your arms on a sandbag on a bench or other arm rest. Make final adjustments with the hold and position you use most often. Smith & Wesson target grade revolvers are coming through with finer click adjustments. Directions don't tell the click values, as various factors cause variation. With "normal" loads each click moves the windage approximately 1/4", or elevation 3/8" at 50 yards, or half that much at 25. Turn the windage screw right to move groups to the right. To raise the group turn the elevation screw left. Don't make 1/2 click adjustments, and the sights will hold zero.



# MYSTERY OF LEWIS BROADWELL'S PISTOL

(Continued from page 31)

Broadwell does not sound particularly German, and way back in the memory department little bells start to tinkle.

It's a good feeling for me to encounter such a problem; it means that some research is in order. To some, "research" sounds like very boring work. Actually it might have all of the excitement of a wild boar hunt. You know the boar is somewhere, and you know that with time, luck, and some hard work you will eventually get a crack at him. To find a boar in the depths of the forest—or to find an answer to an important arms question in the dusty records of firearms history—well, the thrill involved is quite similar.

It wasn't hard to get a line on "Broadwell;" he is mentioned in a number of texts on firearms. Several things were learned. One, that he offered a percussion, breech-loading system (a carbine) to the Confederate government during the Civil War, while a resident of New Orleans, Louisiana. After the Civil War, he obtained a U.S. patent on his breechloading arm (No. 49,583 of August 22, 1865). As suspected, "Broadwell" turns out to be Lewis Wells Broadwell, an American who, living in New Orleans, had at least some Confederate affiliation. Returning to the pistol in question, What, if anything, did Lewis Broadwell have to do with an arm that was obviously made somewhere in Germany?

To make the study complete, I sent to the U.S. Patent Office for a copy of the Broadwell patent, checked on other possible Broadwell patents, and secured copies of the Gilbert Smith patents as well.

In searching for other Broadwell patents, I learned something very interesting. On December 20th, 1870, L. W. Broadwell was granted a patent for a feeding mechanism for repeating firearms, and his address is given as "Carlsruhe, Grand Duchy of Baden." We now know that Broadwell moved from New Orleans, sometime between 1865 and 1870, and went to Germany—now the German-made pistol makes sense! It was also learned that Broadwell had other patents registered from other parts of Germany and even one from Russia!

After the usual delay, the packet of patent copies arrived and the serious work of deciding who patented what was in order. From a careful study of the patent papers can be deduced a number of things.

One; Lewis Broadwell's breechloading system, patented in 1865, bears no resemblance to the pistol pictured here—nor to the system attributed to Gilbert Smith.

Two; the idea of the latch-pin that unlocks the Smith system, by forcing up the spring latch was not patented by either Lewis Broadwell or by Gilbert Smith.

Three; the Gilbert Smith patent that ap-

plies to the Smith hinge action had to do with a breech design which rendered the chamber gas-tight at the moment of firing.

Possibly the idea of the latch-pin and spring latch was a simple enough mechanical feature that it could not gain patent status. Gilbert Smith did patent a spring lock in his second patent (Aug. 5, 1856 No. 15,496), but it had a rear extension that was unlocked from the top, unlike the under pin mechanism so familiar to collectors—which incidentally is employed in the German-made "Broadwell Patent" arm discussed here.

Many questions remain. Did Lewis Broadwell simply take liberties with the Smith system when he was designing arms in Germany? Was there any particular reason why Broadwell left the U.S. after the Civil War?

Were any number of these pistols made in Germany and did they see service during the Franco-Prussian War?

Most probably there were very few of the German-Broadwell pistols made. There are a number of reasons for this assumption. The pistol was completely disassembled and studied. None of the parts are marked or serial numbered as were the usual production pieces made in Germany. Of some import is the fact that this writer cannot find evidence of another such Broadwell piece in collector's hands or in the annals of arms literature.

The size and large caliber would indicate that this pistol was made to be a cavalry arm; a horse pistol. I don't know why more of them were not made. It may have been that the piece came too late for the Franco-Prussian War; it may simply have been that the obvious expense of manufacture over the more conventional muzzleloading cavalry piece was prohibitive.

How does such a pistol rate with American collectors? Undoubtedly there are those purist collectors of Americana who would not be particularly interested, but the fact that Lewis Broadwell was an American, makes this a very unusual and interesting item. The gun would be coveted by the collector of odd-ball guns, and should be well-received by any general collector.

Certainly there is much more to be learned about Lewis Wells Broadwell. There is the possibility that there was some direct connection between him and Gilbert Smith. Perhaps this article will be read by someone who can add a fact or two to the story from which we'll all learn something.

I wish to acknowledge the cooperation and assistance of Bob Ravel of Chicago in the preparation of this article, and Barlow Williams of Elgin, Illinois, for the photographs.

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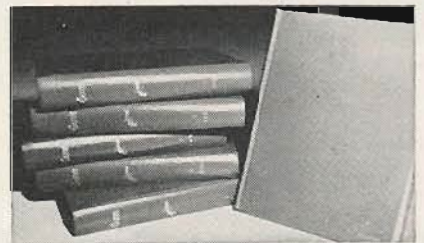
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## BASICS FOR BIGHORNS

(Continued from page 21)

consider it. That includes Malcolm "Mac" McKenzie, whose natural habitat is the southern Alberta Rockies and who is surely among the most intense and capable of all sheep guides. "I live at least ten days a week during the sheep season," is the way he explains his feelings about it.

Two years ago, after a successful September hunt, we discussed the ingredients necessary for bagging a trophy ram. "If you were a hunter," I asked, "instead of a guide, what would you do to stack the odds as much as possible in your own favor?" Mac's list of answers could be called a "Basic Guide for Bighorn Hunters." Every sheep hunter should commit them to memory.

1. Engage a really qualified, experienced outfitter or guide who operates in good sheep range.
2. Get in shape. Work seriously on physical conditioning long before the hunt.
3. Carry a rifle with which you are familiar and which you can fire with accuracy.
4. Carry the best glasses you can afford.
5. Hunt high; get on top of the sheep and stay there.
6. If you see ewes and lambs, you're almost always in the wrong place. Go elsewhere.

Let's examine them in more detail, considering outfitters, for example, because here is where any bighorn adventure begins.

Before selecting an outfitter, get acquainted with the man as thoroughly as you can by mail. Write long before the season opens and before outfitters are all booked up. Ask for references, and contact the references; if you're corresponding with a reliable outfitter, he'll be happy to have you do this.

Find out how long the man has been in business and what his hunting success has been in recent years. No outfitter can guarantee you game, let alone a good ram, but general success is a good measure of the man's ability. I would also suggest that any sportsman who is planning his first sheep hunt advise an outfitter of his age, weight, and physical capabilities. With that information, an outfitter can better predict the chances of scoring.

Another point, which is somewhat delicate, we had better mention here. In some areas, including Alberta (which may be a ram hunter's best bet), the law requires a guide for each non-resident big game hunter. That's both good and bad. For one thing, there are simply not enough good sheep guides to go around. An outfitter, probably an extremely capable guide himself, may take on a party of several hunters. If he is lucky, he will be able to hire qualified guides for all the hunters. But more often than not, to comply with the law, he will hire anyone available. Make absolutely certain you will have an experienced guide—unless you do not need a guide in the first place.

The value of being in shape for sheep hunting cannot be over-emphasized. Of course, bragging-size rams have been killed by hunters almost without leaving camp. But generally, sheep hunting requires more effort—more sweat, riding and climbing—than pursuing any other game. You could collect a

ram an easy way, but the prospects of it are mighty slim.

Several years ago in Montana, I shared a sheep camp with Carter Smith (which isn't his real name) and guide Casey Bohl (which was his real name). Case was crowding 70 at the time, but he was as wiry as a goat and fatigue was something which never occurred to him. He would hunt from daybreak to dark and never slow down very much.

Smith wasn't much more than half Case's age, but a good life in the city didn't make him much of a climber. Still, he had one important factor in his favor, he wanted to bag a bighorn so badly he could taste it—and he almost connected, too.

One day Case and Smith climbed toward a basin in which the old guide had often seen sheep in the past. They traveled slowly, which was wise, so that Smith could make it all the way. Still, near the top, he had to quit. But just for the hell of it, Case continued on to see if there were any sheep in the basin. What he saw were three fine rams, and all in a position where they would be sitting ducks. Case practically ran back down to where his hunter was waiting.



Bighorn heads are ready for the trip home from a successful hunt.

Smith made another effort to reach the top—and shooting range of the sheep, but it wasn't any use, neither his legs nor his lungs would take it. Just fifty short yards from a shooting position he collapsed. Consider how it might have been if he had daily walked the stairs to his office instead of using the elevator—or if he had hiked or pedaled a bicycle every evening, anything to get into shape! The truth is that more rams are not bagged because of poor physical condition than any other reason.

It shouldn't even be necessary to discuss firearms with prospective sheep hunters, but Mac Kenzie assures me that it is. Far too many, he relates, arrive in camp with rifles they don't really know. In some cases the rifles have never even been fired before; and there is no sensible excuse for this. But let's consider what makes a good sheep rifle in the first place.

Basically, a good sheep rifle should be flat shooting and light enough to lug through mountains without undue labor or discomfort. It should have a scope sight no smaller than 4 power, and a sling with detachable swivels. Some mountain hunters may disagree, but I believe it should be sighted to hit dead center at 200 yards.

A discussion of the best caliber and bullet combination for this kind of game could fill this entire issue of GUNS, but why pursue it? It's much more important to be able to shoot, whatever the gun. To be brief, let me just describe my own preferences.

For many years I used only a model 721 Remington .270, with a custom stock and a 4X scope. I figured it was ideal and still believe it's a splendid choice for bighorns. In any case, it collected a couple of fine heads for me. One year I anchored a Stone sheep exactly where he stood, 250 yards away, with one 150 grain bullet from a 725 Remington .280. Now I'm using a model 700 Remington 7 mm Magnum with a 3X-9X Leupold variable scope. It's made-to-order for sheep—or any other mountain game a sheep hunter is likely to encounter.

But neither the 7mm nor the .270, nor any other, is worth carrying unless the hunter has burned plenty of ammo in it firing on targets at various ranges—up to 300 yards if possible. He should fire until he knows exactly what he can do with the rifle and he should have confidence in it. The alternative is frustration and disappointment after arrival in the mountains.

Binoculars are almost as important, but not such critical factors as the rifle. You can bag a sheep without good glasses, but hunting without them is a handicap. Many guides do virtually all of their hunting by glassing logical sheep country—which is another way of saying that good binoculars are worth thousands and thousands of footprints.

That brings us to the remarkable critter to be hunted. Except possibly for the white mountain goat, no North American animal lives and thrives in such lofty, unfriendly real estate. But, as in any kind of hunting, a sportsman is likely to be more successful if he knows something about his quarry, its habits, weaknesses and what makes it tick.

First, be assured that any bighorn ram has extraordinary eyesight as well as good senses of smell and hearing. Bighorns are mainly grazers of grasses (although desert bighorns in the Southwest are browsers), but they will also eat sedges, leathes, willows, and buds in season. Keep this diet in mind as you hunt.

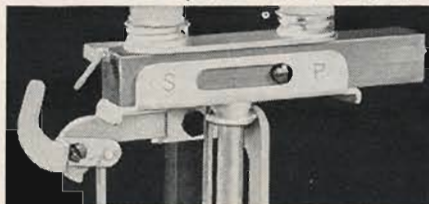
A ram may spend a large part of his life in one comparatively restricted area and naturally the top sheep guides keep these ram areas catalogued in their minds, and can identify a "ram basin" without even seeing any rams in it. After hunting seasons close, rams may drop down to lower-than-normal altitudes, both to find the bands of ewes and to find forage not covered by snow. But ordinarily rams live carefree bachelor lives on top of the world. Except during the rut, they do not associate with females or young sheep. So, it's well to repeat this important point: if you are finding ewes and lambs in numbers, go elsewhere.

Until he passes two years of age, the horns of a ram are small enough that he's not distinguishable from a ewe. A five year old ram usually has a half-curl and at eight his

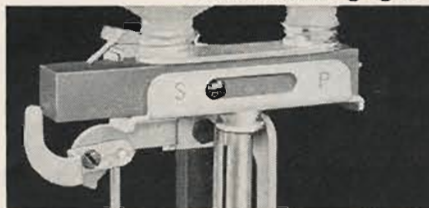
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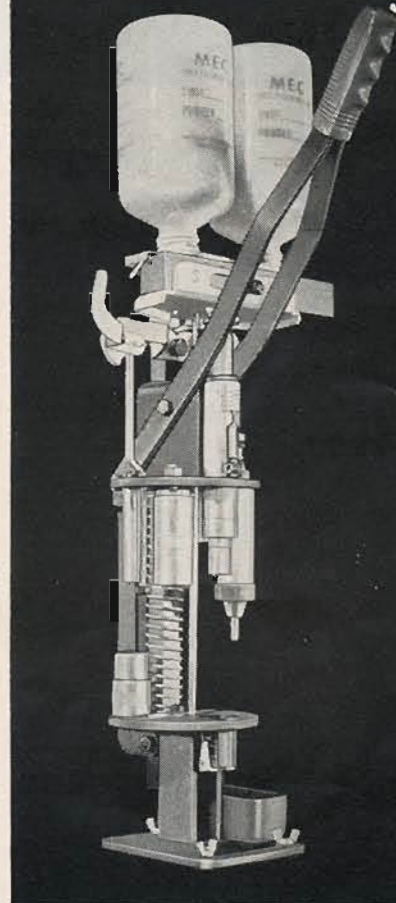
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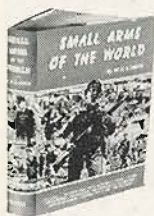
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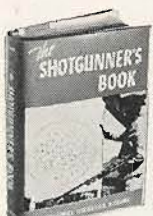
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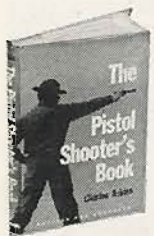
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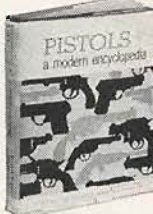
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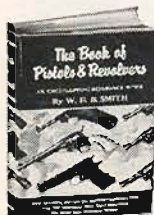
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horn is a three-quarter curl, which makes him legal game in most places. A top trophy ram, therefore, must be at least ten and maybe twelve years old. Very few ever reach this age; severe winters, disease (maybe from domestic sheep), loss of teeth, and perhaps predation are constantly culling out the older animals. This explains the relative scarcity of the truly big record-book males.

Incidentally, it is possible to tell within a few years the age of a ram. The horns have growth rings (as on scales of a fish and the trunk of a tree)—a deep ring designating each year of life. However the ends may be frayed, broken or "broomed off" from fighting or other erosion.

Except in National Parks and similar sanctuaries, decades of hunting have ingrained a great wariness in bighorn sheep. They're constantly alert. Except in extremely stormy weather they spend a large portion of every day bedded down in sites carefully selected to have good vision all around. Often the bedding places (which an experienced guide or hunter can actually smell) are located on rocky spines, drop-offs or protruding rimrocks—all places difficult to approach without being seen.

But bighorns do have one notable weakness. While they constantly stay alert for danger from below, they seldom look up. It means that a hunter who gets on top of the sheep and stays there is improving the odds in his favor. In other words, it's most essential to spot the sheep first—and the best way to do it is to approach from above.

Getting above rams also (usually) deprives them of using their sense of smell. Air currents tend to rise upward along mountain slopes, and a rising air current makes an attempt to approach a sheep from below completely futile.

Last fall, high in Montana's Sun River country, I had a dramatic demonstration of a bighorn ram's alertness. I had climbed to a dizzying ridge with a perfect view all around. I glassed the steep slopes below me and spotted something that was neither rock nor bush. I adjusted the focus of my glasses and found it was a medium-size ram which seemed to be sound asleep.

Since I had no sheep permit, I had to be content with watching the animal. All at once, and for no accountable reason, the ram stood up, stared down the mountain below him and, running in my direction like a scalded tomat, almost ran over the top of me.

Fifteen or twenty minutes passed before I discovered what spooked the sheep. Two mounted men—a hunter with his guide—came riding up from the valley. The sheep hadn't even seen them, but the rising air current had carried the message. But that's only half of the incident. They stopped to chat with me, and had no idea they were within miles of a sheep! That's the difference between being on top and not being on top. It's also the story of bighorn sheep hunting—anywhere.

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## HOGS, DOGS AND HANDGUNS

(Continued from page 30)

hunt for javelina and a dry run.

A herd of javelinas will run from a dog—for a while; then the animals will take a stand and fight. Occasionally, however, the irritable little animals will actually seek out a dog and attack it. No matter how cumbersome the short-legged javelina looks, it is surprisingly quick and agile, so much so that few javelina dogs live to a ripe old age. Most of them, even the experienced ones, finally go the way most hog dogs go—in a valiant fight to the bitter end.

The major problem confronting the hunter using dogs is the chase; it's usually short.



Seldom do javelinas run for more than half an hour before they hole up or decide to fight. But the chase is fast, and the terrain the hunter must cover is anything but easy. Almost every plant that grows in the rattlesnake-infested country of South and Southwest Texas is covered with thorns, from the the curved spines of the clinging cat claw to the hypodermic needles of the *tasajillo*. It's not easy, therefore, to keep pace with the dogs, unless you're on horseback or riding one of the popular off-the-highway scooters. No matter how you travel, a pistol or revolver strapped to your hip is far more convenient than a rifle or shotgun. Almost all of your shots will be made to order for a handgun—at close range and in heavy brush.

A fight between javelinas and hounds is one with no-quarter-asked, and no-quarter-given. If the hunter's bullet doesn't interfere in time, there is a good chance a dog rather than a hog will die.

Dude, a brave but brash border collie, was a good example. One winter morning Dude outran the pack and was snapping at a boar's heels when the hog took refuge in a shallow cave. Dude should have barked "bayed," but didn't. He charged into the cave, and seconds later he staggered out, in about as bad a shape as I've ever seen a dog.

Fortunately, a veterinarian, Clifton Shepherd of Dallas, was hunting with us that morning. We carried the dog to a ranch

house where the vet set up a "field hospital." He gave Dude a transfusion of lukewarm salt water and sewed up the gash in the dog's hide. Dude lived, but less than a month later he pulled the same stunt, and a sharp-tusked hog severed both sides of Duke's jugular vein.

While a .22 caliber bullet will put a hog down, it must be placed in the right spot—the brain. Otherwise, you'll then have a very irritated, and potentially dangerous, beast on your hands. Like any other wounded animal, a javelina will go for a man as quickly as it will a dog, it just depends on which is more convenient, the hound or the hunter.

It is for this and other reasons I prefer a handgun larger than the .22 when hunting the hogs. The heavier calibers are much more effective at putting a javelina down and keeping it there, especially when a body shot is made. In fact, I do not recommend a .22 for anything but a head shot. I have seen a hog, carrying five .22 slugs in its body, almost kill a dog before the pig died.

Another reason—and a good one—is that the European boar or wild hog; both the import from the Continent and its formerly domesticated kin, are found in parts of Texas, quite often in javelina territory, and a hog hound will trail, and attempt to bay, a 350 pound "Russian" boar as readily as it will a 30 pound javelina sow. If this should happen, a .22 definitely is not the proper gun to use—unless you're shooting from one of my favorite tall rocks.

The javelina's nearsightedness gives the hunter quite an advantage. While it is difficult to hunt the animals successfully without dogs, it can be done. But the hunter often must use his eyes, ears, and nose to find his quarry.

When hunting afoot, it is best to move slowly and cautiously through the brush. Although the animals might wind you, they very often will freeze in their tracks, apparently attempting to locate or identify the intruder. If the hunter is quiet and uses his ears, he might be able to hear the hogs grunting and rooting long before the animals are sighted. And, while the javelina utilizes its nose to detect the hunter, the hunter can do likewise.

The javelina is equipped with a mammary-type gland on its back just a few inches forward of the tiny appendage that serves as a tail. The strong-smelling musk emitted from this gland can be detected easily several yards away, even by a hunter with a bad head cold.

But this type of hunting is a hit and miss proposition. If you really want a trophy and aren't too squeamish, use dogs. For fast action and stimulating excitement, hogs, dogs, and handguns are an unbeatable combination.



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## GUN RACK

(Continued from page 14)

gunsmith. Well, here is one tool that will do darned near any mechanical job that you throw at it—the Dremel Moto-Tool. The Dremel people have three different sizes on the market, and all of them come in a handy metal box that holds not only the tool, but also all of the accessories that go with it.

The various bits are easily put into the Moto-Tool chuck, and there is no end to the various jobs you can turn out with one of these Dremel tools. We have used ours to



grind down some very fine and thin-bladed screwdrivers, have counter-sunk a stock screw, have polished the bolt of a rifle—the list is just too long to give here. Your gunshop can order one for you if they don't stock it, but a number of shops that we know keep them handy—for the customers and for their own use. And the fact that the professional uses the Moto-Tool should be enough recommendation.

## Pacific's Newest

For years we have chamfered and deburred the conventional way, and every time we have wondered when somebody in the reloading tool field would come up with a tool or gadget that would give the handloader a break from the tedious twisting and turning of the chamfering tool. Well, at long last, Pacific Gun Sight Company has hit the jackpot. Their Chamfering and Deburring Lathe is just the thing for us hull fillers. We mounted ours on a small board that we can clamp into the bench vise, and were ready to tackle any chamfering job. Once you're through with the inside deburring, unscrew the deburring tool, turn it around, put it back into the lathe, and you can finish the job in jig time. Also available is a Primer Pocket Reamer. A wonderful time and bother saver, you should have one on your bench—take a look at one in your gunshop, and you'll buy it.

## Target Patches

If you shoot a great deal, then the costs of buying new targets for every five or ten shots can run into a tidy sum. Like everybody else, we have been licking the conventional pastes, and have not been enjoying the experience. Recently, we discovered something new—self-sticking patches. The Time Products Co., Dept. C, 385 Burlington Rd., Riverside, Ill., markets black and white patches under the name Time Target Patches. First of all, the box of 500 patches retails for only 98

cents, black or white, and those patches really stick. Pull the backing tape out of one end of the box, and the ready-to-go-on-the-target patch pops out the other end. One of the toughest adhesives on the market makes the patches stick to anything, and of course you don't have to lick 'em!

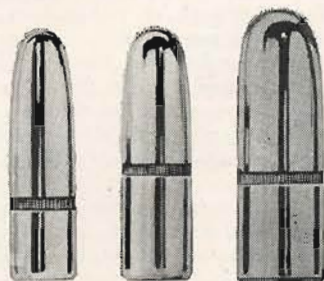
## Dinsmore Shooting Glasses

Designed with the shooter in mind, especially the claybird addict, the new Dinsmore glasses have several good features. The temple covers, sweat bar, and the nose pads are plastic covered. The glasses are fully adjustable for ear-to-nose length, the nose pads can be moved to suit your face, and the 75 mm wide lens gives plenty of protection. In short, you can bend and fit the frame to fit your face, and the glasses are unconditionally guaranteed. Glass is heat treated and impact resistant, comes in light green (\$19.95) and in smoke and regular green (\$17.95). Dinsmore glasses can be bought either directly from M. B. Dinsmore, Box 21G, Wyomissing, Reading Pa., or through your gunshop.

## Hornady Bullets

Something new has been added to the Hornady line. In their Full Metal Jacket (FMJ) line-up of heavy, big caliber bullets, Joyce Hornady now offers a 250 gr. .338 full patch bullet with a nickel silver jacket. The FMJ's all have the nickel silver jacket, and bullet performance, tested in the moist sand recovery box and in the barnyard lime recovery box, show excellent bullet performance.

The .338 bullet gives the old Winchester caliber a new degree of versatility, and the bullet can, of course, be loaded for the .340



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While we are on the subject of Hornady bullets—if you'll write to Hornady Manufacturing Co., P.O. Box 906G, Grand Island, Neb., they'll send you their new loading data for the .308 Norma Magnum and the .284 Winchester. We spot checked some of those loads a while back, found them right in line with those we worked up.

## BANDTAILS—HIGH VELOCITY PIGEONS

(Continued from page 19)

and means—something I'll touch on directly. First, though, consider this superb west coast upland bird.

A bandtail pigeon weighs about 14-15 ounces. He is so loosely feathered that you may get a cloud of feathers without so much as touching him. He is migratory, moving north in spring, south in autumn; affording good gunning in all the coastal states of Washington, Oregon, and California. Quite a few nest in my hunting grounds in southwestern Oregon. They build a rude platform of twigs and deposit one, rarely two eggs. The squab is usually on the wing by the first of August.

Migratory, yes—but here all comparison with ducks, geese, and shore birds stop. To visualize bandtail pigeon migration you must be an upland gunner on the west coast. The woods will be comparatively empty, with a sprinkling of resident bandtails calling from the tall firs, settling into the feeding areas. Then, during late August, this upland cover will fill with clouds of bandtail pigeons, stripping the cascara trees of their berries. Red and blue elderberries will get their attention. Black huckleberry is also another prime food preference.

All this adds up to some beautiful gunning—frustrating gunning on occasion, for it takes a wide stretch of skill and shotgun versatility to measure up to bandtail pigeon shooting. Essentially, this gunning falls into two parts; pass shooting and jump shooting—neither comparing with any other type of gunning—though comparisons are always made.

Bandtail pigeon shooting over a pass is always compared with duck and goose pass shooting—but there is all the difference in the world. If you had a teal sizzling over a pass, all out, and laying down a flight pattern comparable to a windwilled snipe, the comparison would be much more apt. A bandtail may loaf over a pass at 30 miles an hour, rising and falling as the contour of the ground suggests, or he may arrow over at 55-60 miles an hour, as graceful in flight as a chimney swift.

Best of the bandtail pigeon gunning is pass shooting. Here, during the early morning flighting, you get all the different shots—incomers, high overhead passing shots—you name it, a bandtail will present it to you on a pass.

Once, gunning a pass three miles from my cabin, alone one mid-September day, I took a limit straight, all incomers. They came from a reforestation, near a creek where they had watered and "graveled up" during the preceding evening. They roosted in the sheltering firs, then came over the ridge I occupied, flying toward a huckleberry brush a quarter mile distant.

I stood at the brow of the ridge beside a small hemlock and took eight incomers as they came over at a high 45 yards. I caught one well out in front, dropped him with my first barrel, then took another directly overhead. There was no deviation in their flight pattern this morning—no change of altitude as they came directly over my snag on a direct route from their roosting trees to their feeding area.

On another occasion I drove twenty, rough Jeep miles over a mountain road to gun a fabulous "graveling up" place on a wilderness river in southwestern Oregon called the Blue Slide. I stood on the top of a ledge and gunned bandtails passing below me, the most intriguing shooting I have had in any number of years. At ranges around 45-50 yards, those bandtails came down the wilderness river, not only covering ground at a great rate, but losing elevation as well.

Flight patterns of bandtail pigeons, as you may suspect, are plenty erratic. Frequently, they will come all-out at you, the contour of the ground outlining their elevations—dropping down for a swale, rocketing up to clear a ridge, swinging by a tall tree, zooming over the top of another. Quite often they will come over a pass in small flocks, well strung out. At times I have seen as many as three hundred storm over from their roosting trees to a feeding area, a compact, blue roaring mass.

Pass shooting bandtails, however, is only one phase of the gunning. When pass shooting slacks off you can get wonderful jump shooting directly in the huckleberry or cascara thickets where they feed.

Jump shooting has many elements of ruffed grouse gunning, but with a few angles of its own. Catfooting along, you come into a bandtail feeding area, and usually you can hear the sound of their activities—the clapping of wings as they balance precariously on a swaying limb; the occasional snap of a limb as they overtax its strength.

Eventually in your stalking, you flush one out. He goes spiraling up through the trees, and you are lucky to get a shot at all, luckier if you connect. Watch the best opening, your gun at a good "sneet ready" position. There is a good chance that in the exodus a bandtail will pass through that clear spot. The shot is touch and go; no time for more than a fast swinging snap. After you have emptied your gun, one thing is sure—two, or maybe a half dozen pigeons will go through the opening you watched while you are frantically reloading. Readied for another shot, you may watch it in vain while the rest of the flock sort themselves out of the brush and take off—that's the way of bandtail pigeon gunning!

After putting up the flock you can do one of two things; wait here for their return—a very good thought if it is early in the day or you can scout the cover for the best place to take incomers when giving this area their attention again. In any event you are going to have plenty of second thoughts about the shotgun and loads you carry.

Shooting bandtails calls for a specialization in loads and guns beyond that of any other type of shooting; it calls for a specialized shooting technique, too. Watching a gunner take a fast winging teal over decoys, I can tell if he's been prowling the autumn pigeon coverts on the west coast. If he has, he'll have a fairly light gun; not more than 7 pounds, and he'll have a fast, decisive swing—no poking, no slow sustained lead.

For my money, the best bandtail gun is a double, either side by side or over-under, weighing not more than 6½ pounds, and in



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my case, in 20 gauge Magnum. If you can keep the weight down to this limit, in a well balanced gun with 30 inch barrels, so much the better. Short tubes do not appreciably contribute to a faster gun, if the weight is the same. And, when fast, precision gunning is called for at ranges from 45 to 55 yards, the extra barrel length is all to the good.

Getting the ideal gun for this shooting hasn't come easy for me. I've tried everything, including 12 gauge with 26 inch barrels, and all choke constrictions. I even had two doubles custom made before I latched on to the right combination.

Stocking should be on the straight side; 19/16 inch drop at comb, 2 1/4 inch drop at heel, a down-pitch of 1 1/2 inches, and a length of pull of 14 1/4 inches. These stock dimensions have proven good for all field shooting for the average gunner.

I say double guns for bandtails for some very basic reasons. For this gunning you must have the ultimate in balance. You also must have two instantly available chokes, capable of delivering two pattern densities with about 10 per cent difference. For most pass shooting, a good full choke delivering 80 per cent in the left barrel is about right. This should have a complementing right barrel delivering 70 per cent. On days when flight patterns change, and ranges close down to 35-40 yards, then two modified barrels, or a modified left and improved cylinder right barrel is just the ballistic ticket.

My solution to this specialized gunning problem has been to put as much choke as practical in the barrels, then adjust with handloads. Here is how I bring off this par-

ticular ballistic caper:

My long range, 70 and 80 per cent handloads are made as follows: 1 1/8 ounce of size 7 shot, 32 grains of AL 8 (or 26 grains of AL 7) powder, loaded in a 20 gauge Magnum, 3 inch shell. The heart of this load is the wad column. It is made as follows: One .135 or .200 paper over powder



wad, depending on the shell type; eighty pounds of wad column pressure applied to the over powder wad; one 1/4 inch perforated felt filler wad. This perforation is made with a 3/8 inch leather punch, the hole carefully centered in the wad. Top this off by using an Alcan PGS or a Sportshell pressure plug plastic wad, inverted under the shot charge (skirt up), finished with a star crimp.

This loading gives me 80 and 70 per cent patterns, while conventional handloads in the same barrels give me 74 per cent left, 60 per cent right. These two loadings give excellent coverage for most pass shooting. And in my double I have instant selection of two different chokes for the required bandtail gunning ranges.

For shorter range shooting, I have developed a special spreader load. This is achieved with the same shot and powder charges as the long and medium range loads, using 7 1/2 shot, instead of the size 7. The perforated filler and inverted plastic wad are not used; instead, I use a paper nitro, .200 over powder wad, and one 3/8 inch fibre filler.

My shot charge is spooned into the shell in about three equal segments, each separated by one "B" thin Alcan over shot wad. You now have a shell with the shot charge almost equally divided into three segments. You may want to use three "B" thin over shot wads to make a load with four divisions, this will give you more spread than the three segment load. One caution—do not use nitro wads for these divisions.

I have found that a spreader load with three shot segments produce improved cylinder and modified patterns in my 20 gauge Magnum double. Patterns are very even and consistent from shot to shot.

To prevent confusion, I reload the extreme long range shells in bright yellow Alcan cases, the intermediate range loads use the distinctive red Winchester-Western cases; Remington cases, with their characteristic green color, do honors for my handcrafted spreader loads.

All this adds up to a specialization beyond that of ordinary field gunning; but the west coast bandtail pigeon is that kind of bird. He simply doesn't brook any ballistic slackness anywhere, any time—pass shooting or covert. This I think, is the reason he is a favorite of a large number of western gunners.



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This beautiful Virginia Manufacture Pistol is 16 inches long and has a round steel barrel 10 inches long. The Virginia Flintlock was patterned after the Harpers Ferry with only slight changes, such as, a swivel ramrod which proved much stronger and the grips and brass buttcap are slightly shorter. Pistol has a rifled bore in .54 caliber, with handsome varnished wood and brass mountings. Lockplate is casehardened and is marked with "VIRGINIA" and "Richmond 1812".



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The Kentucky Pistol is a unique Arm and is a very attractive one for the collector to acquire or for the shooter. This Flintlock is a typical "KENTUCKY" pistol, practically none of which are exactly alike. Many of the Kentuckies were made to order by local Riflemakers for customers to carry on Military Expeditions of the late 18th and early 19th Centuries. This handsome pistol has varnished wood, brass mountings and a casehardened lockplate. Caliber .44, Rifled Bore for shooting.

## CENTENNIAL ARMS CORP.

3318 West Devon Ave., Chicago 45, Illinois

## WHAT'S NEW FOR '64—WINCHESTER

(Continued from page 37)

such as shoot-offs, splits, torn flanges, and reloading difficulties.

The objective of Winchester research was an all-plastic shotshell of unit-type construction which would incorporate the basewad in the shell itself. Wanted also was a shell which would not only make reloading easy but which would permit multiple reloadings with complete safety and easy operation. Here is Winchester-Western's own report on the achievement of those objectives:

"One indication of the strength of these shells is the fact that...they do not even require a metal head! We are marketing them with brass heads, but only because customers have been educated to expect brass heads. Proof that they are not needed lies in our reloading tests.

"Using regular production 12 gauge shells and reloading with the normal 1 1/4 ounce trap load, we found that the shell would stand reloading from 25 to 30 times. The part that failed then was invariably the brass head. By replacing the worn-out brass head with a new one, we found that the all-plastic shell stood up to 50 reloadings.

"Hand in hand with the amazing reloading capabilities is the fact that there is a marked increase in safety. The unit-type construction is such that gas leakage through the basewads cannot occur. During the firing of thousands of these shells at both high and low temperatures, we never encountered a single split basewad. In these shells, the head

is integral with the sidewalls, is not an assembly of several parts. This unit-type design produces the strongest and safest shotshell ever marketed."

The new plastic shotshells will be made in 12, 16, and 20 gauge field loads. For 1964, all 410, 28, and 10 gauge Winchester-Western shotshells will be paper; all Super-Skeet and Super-Trap will be Mark 5 and available in either paper or plastic; all Super-Target loads will be paper and not Mark 5; all low-brass plastic loads will be Poly-formed; all high-brass shells will be the new compression-formed type. There will be no change in price structure for any of the new shells.

More news from New Haven is promised for later in the year. But the big news Winchester-Western, Remington, and all of the companies which make up the firearms and shooting sports industries is that they are expending every effort, this year as in the years past, to give you the best guns, the best products, for the best in sport—and to protect your right to the enjoyment of that sport.



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## KIDS AND GUNS GO TOGETHER

(Continued from page 27)

It finally dawned on me that weight alone did not determine the handling qualities of a gun in the field. The advent of the 20 gauge 3" Magnum answered the need. Here was a gun shooting loads from 7/8 of an ounce to 1 1/4 ounces of shot, and in fact it could kill anything that a 20 gauge or 12 gauge can kill.

The gun handled like a dream because it was not only light but also well-proportioned. We decided on the 20 gauge with 3" chambers. To this day we have no regrets or reservations regarding the choice.

The next problem was what type of gun: automatic, double barrel, over and under, or pump. By our previous standards singles and bolt actions were excluded from consideration. All are good. But safety caused us to favor the double and the over-and-under. There was no question that they were better for handloads. Crossing ditches and fences made the gun that breaks a safer firearm, and visual inspection of barrels and chambers was also considered. Lastly, it was felt that either the double or the over-and-under was better proportioned and was handled easier by youngsters.

Over-and-unders in 20 gauge 3" Magnums with single trigger and ejectors were \$250.00 and up. Several doubles with single trigger and automatic ejectors were available from approximately \$160.00 and up, and we finally settled on the AYA Matador double with 28" barrels bored modified and full, single selective trigger, and automatic ejectors. Two of our boys now own such guns and the third will have his in another year.

The boys received their shotguns on the Christmas closest to their tenth birthday. Before Christmas dinner, they had both patterned their guns and shot 25-30 shots at hand-thrown targets. Man, what a Christmas! We had to scrimp and save to buy those guns, but my wife and I loved every minute of it. Our sons had accompanied me on hunting trips, but after the first boy received his shotgun, the proof was to be in the shooting. We had many pleasant sessions with the hand trap. For his tenth birthday, the oldest boy was allowed to shoot a round of skeet, and he broke 18 out of 25! Naturally, I almost popped my shirt buttons. He gave every indication that he'd excel in shooting and hunting.

The first shotgun target of the season in California is the dove. Opening day found my dad, a doctor friend, my son, and myself in a grain field. A low fog ruined the morning shoot. The doctor and I had to be at our offices by 9:00 A.M. Anxious for my son to kill his first dove, I sent him out to flush one which I saw light in the stubble some 60 yards in front of us. As he approached, the dove escaped in the fog, but another flew directly at him about 25 yards high—a very difficult angle. He dropped it with one shot. While I was praising him, another passed him from left to right, and he piled it up with a single shot. While retrieving the second bird, still another came by from right to left and he made a beautiful 45 yard kill. I was so amazed that I missed an easy shot at a dove which slipped by me.

The doctor and I left for work, he with

two birds and I with one. When I returned in mid-afternoon, I was elated to find that my son had his limit of 10 birds. He was a happy kid, by any standard, and you can guess how I felt.

Since this first hunt, Harlan has continued to score heavily on everything he attempted. At eleven he outshot four adults and me on the opening day of the dove season. He has consistently killed his limit of ducks, quail, pheasants, and bandtail pigeons. Shooting pigeons in the Los Padres National Forest last winter, he made a double on these swift, powerful flyers, reloaded and killed a trailing single. The birds were at least 50 yards from the gun, and downing them was a feat that would warm the cockles of anyone's heart. All of us can recall vividly any triples we've made, but I won't forget two green-wing teal folding dead to two quick shots fired by Harlan on his first duck hunt.

The actual hunting is merely one aspect of the overall picture. The safety, sportsmanship, and good manners learned afield are



Harlan's first .270 group measured 1 1/2 inches; four shots at 100 yards.

worthy objectives in themselves. Have you ever noticed how mature a youngster acts in the field or blind when he's in the company of adults, even if other youngsters are present? To my way of thinking this is a far more desirable activity and outcome than watching television.

The activities related to hunting and shooting that bring father and son together are numerous. There is the planning and packing for trips. Cleaning of firearms and game can be made enjoyable for father and son. Time spent traveling to and from the place of shooting would probably otherwise be spent apart. During the long winter evenings we spend many pleasant hours loading shells. All the boys participate in this activity, and they are of real assistance, and they learn what makes a shell perform. They learn to appreciate the cost of shells and form an attitude of conservation of ammunition, even if it is cheaper to load them than to buy them.

Although we live in a densely populated area, we are able to use our hand trap often, and near our home. When we visit relatives, we usually have a gun, some shells, the hand trap, and a case of targets in the car. We don't always shoot, but we all have fun when we do. I know of no better way to teach a youngster to shoot a shotgun than by shoot-

ing hand-thrown targets with coaching. He is free from spectator pressure and the rushed feeling he's likely to get at a gun club. By using a hand trap, a shooter can practice all angles and shots until he has mastered them. Handloading shells and patterning of guns has not only been a pleasant experience, but also taught the boys the limitations of the shotgun and shot sizes, as well as their proper use. Recoil has been no problem with the 20 gauge Magnums. They weigh 6½ pounds, and I fully expected them to kick like the standard weight 12 gauge guns with which we experimented. The boys rock back and reel under the recoil of any 12 gauge gun fired with 1¼ oz. loads, especially if fired in a light double. Conversely, very little difference is noted by them between a 1 oz., 1½ oz., or a 1¼ oz. load fired in the 20 gauge shotgun. The oldest boy has fired many 3" 20 ga. loads at ducks without ill effects.

In developing these 3 inch 1¼ oz. loads, I could not believe that they should perform with such mild recoil, and patterns were better than those from my 12 gauges. Next we made penetration tests and found that penetrations equal to that of other loads.

This was difficult to believe, and we rechecked. We weighed powder and shot, loaded and checked again. The results were the same—excellent patterns, good penetration, very mild recoil.

After much experimenting, hunting, shooting, and patterning the 20 gauge 3" Magnum, I'm convinced that we made the correct choice. I was so convinced that I purchased a Browning over and under 20 gauge with 3 inch chambers and 28" barrels—bored modified and full—as my own upland gun, and this compact 20 gauge Magnum meets the needs of the tyro and veteran alike. It should be noted that 20 gauge shells are lighter, more compact, and less expensive than 12 ga. load.

Including your sons in your hunting and shooting may mean that you'll have to forego certain invitations, membership in hunting clubs, and hunting with your cronies... but the rewards and dividends of your efforts will be immediate and lasting. Hunting success is not solely measured by size or weight of the bag or the number of shots fired, but by the companionship and sportsmanship that you and your son can enjoy together.



## WHAT'S NEW FOR '64—REMINGTON

(Continued from page 36)

Win., .30-06, .308 Win., and .35 Rem., with a carbine version in the last three calibers. The Model 11-48 shotgun comes in all five gauges: 12, 16, 20, 28, and .410; and the Model 1100 Remington gas-operated automatic shotgun ("the shotgun with up to 40 per cent less recoil") will also be available in 16 and 20 gauge.

The Remington line of bolt action .22 caliber rifles was broadened to include both wood and nylon-stocked models and the nylon-stocked .22s will still be available.

Better performance and easier reloadability is Remington's claim for their new line of shotshells with the "Power Piston" wad column: "the finest target loads we have

ever produced," according to Remington experts. A new, larger, and very sensitive primer is used in these loads (it fits all Remington, Peters, and competitive shells), and the base wad is enclosed in plastic, giving uniform height for easier reloading, provides a positive gas seal, and prevents deterioration after repeated reloadings. Remington reports that "patterns with the 'Power Piston' in paper or plastic are up to 5 per cent denser at the target, with extremely uniform shot distribution, less shot deformation, and with the shot string concentrated for a longer period after leaving the muzzle, thereby delivering better patterns at longer ranges."



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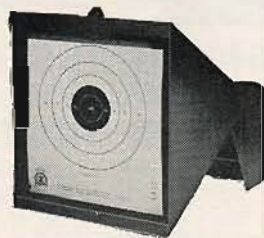


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## QUALITY GUN BY UNKNOWN MAKER


(Continued from page 39)

The top rib is engraved, in silver, "F. de Dreyse, Sommerda," perhaps the name of a relative of the famous Nicholas Von Dreyse who developed the Prussian needle gun. The front sight, now missing, was dovetailed into the top rib, and the rear sight is adjustable for elevation. The breech is inlaid with silver scrolls, and silver animals are inlaid into the trigger guard and opening lever. On the operating cam is engraved the following "0,70 Randschluss sp."

To operate the action, the lever under the fore-end is pulled to the rear. This moves the barrels forward in line with the bores for about  $\frac{3}{8}$  inch; they then swing out to the right. This movement is effected by a cam, operating in a slot under the barrels. At the same time, the strikers are pushed to the rear along with the mainspring housings. Cartridges are then placed in the breech, and the lever is pushed forward. This closes the gun and moves the barrels back to the

locked breech position. To cock the gun, the mainspring housings are pushed in, and are caught and locked into place by a spring catch (this had been broken and lost, and I could not see what it looked like). Firing is conventional, the right barrel fired by the front trigger, which is set by pushing it forward.

Extraction is ingenious. On opening, the barrels go forward, and extractors at the top and bottom of the shell heads hold them at the face of the breech block. Then, as the barrels swing to the right, the shells are slid sideways across the face of the breech, clear of the extractors, and can be removed with the fingers. With a little practice, this could be done very fast; as fast as a conventional double, in fact.

I haven't worked up enough courage as yet to repair and fire this gun—maybe it's just as well. Can you throw any light on the origin, makers, or caliber of this gun? If you can, I'd like to hear from you. 

## MIXED AMMO WON'T SCORE

(Continued from page 33)

A good suggestion is to select a bullet weight for your caliber, which is also most efficient for the game you are hunting, or are likely to encounter. In our part of eastern Washington, big game is mostly whitetail, mule deer, and black bear. If you own a .30-06, 150 or 180 grain bullets are most suitable. Accordingly sight the rifle in with a fresh batch of ammunition. What should the owner do with his remaining mixed ammo? The most sensible solution is to put up a practice target, fire it, and see for yourself how it performs. This will convince you of the facts, while enjoyably getting rid of the fodder that could easily have caused you to miss a nice buck or bear.

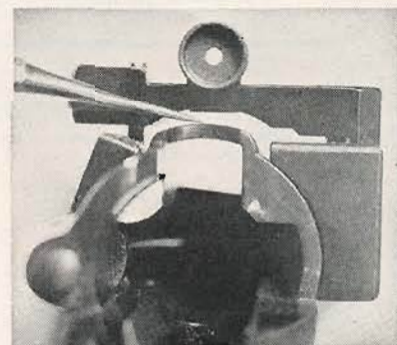
Allowing various assortments of old and odd calibered ammunition to clutter up a gun cabinet can result in taking the wrong caliber ammo afield. When you sell or trade a gun and change calibers, gather up all ammunition for it and make a package deal. Dealers are not usually interested in old broken boxes of ammunition by themselves, but can include it as a "go with the gun" offer.

In .22 rim fire rifle magazines I have found everything from 20-year-old, copper cased, low velocity cartridges, to mixed Shorts, Longs and Long Rifles of solid and hollow points. Targeting a rifle with a tube full of muddled ammo like this gives frightening results. But actually, the correction is easy. Get one make and type of ammunition, zero in and continue using it.

One day, while hunting ground squirrels with my .22 rifle, I exhausted my supply of .22 Long Rifle, hollow point, Super X ammo, for which I had carefully sighted in. When I switched to a box of solid points, squirrels were repeatedly missed at around 50 yards. Re-checking the zero revealed the solid points grouped well, but were out at 10 o'clock, just enough to miss squirrels. Since hollow points are the better hunting rounds, I

simply bought more hollow points and saved a re-sighting job.

While testing an 8-mm 98 Mauser, on which a receiver sight had been installed, I found it shot about eight inches high at 50 yards with Western Super X ammo. Out of curiosity, some Remington Core-Lok, of the same bullet weight, was tried. This came into the bullseye nicely with a bit of sight adjustment remaining, so this job was accomplished by merely changing ammunition. It can easily be seen what mixed leads would do in this rather extreme case. Knowledge of the variations caused by mixed ammo can be used to advantage when sights are installed on rifles. If it is found that either the receiver sight will need to come to its lowest point of adjustment or a higher front sight is needed, it is wise to use a



Gap between receiver and sight lets you adjust for other ammo.

front sight high enough to permit the receiver sight to position at least 1/16 inch above its bottom position, allowing for adjustment either up or down if you change ammo later.

One common opinion, which is basically false, is that lighter bullets shoot higher. There is no established rule for this one, but

most of the time the exact opposite is true. For instance, a .30-06 that is zeroed for 180 grain bullets, it is far more apt to shoot 110 or 150 grain ammo low and left, rather than higher. This is very evident in bolt action rifles with a fore-end up-thrust bedding tension. Here barrel vibration peculiarities enter into bullet or muzzle pointing. A .300 Weatherby Magnum I once used occasionally as a giant varmint, grouped well with a variety of loads, yet with 110 grain bullets it shot four or five inches at eight o'clock at 50 yards, when sighted perfectly for 180 grain round nose Speer bullets.

I have seen different loads and bullet weights shoot almost into the same group, while in the next rifle almost every degree of a circle was covered. It can not be taken for granted that a lighter bullet will shoot higher. The only way to be sure, however, is to test it yourself in your own rifles. Frequently a hunter will buy some lighter bullet weight ammo for long range shooting. Many times he won't be shooting more accurately at the longer ranges, but perhaps twice as low, and to one side as well. Here sighting in is essential.

More ammunition variation came up during my annual winter .30-30 handloading program. In slack season we load all the .30-30 cases in the shop for over-the-counter sale. It is essential that this ammo be of approximate factory velocity and striking point on the target. A charge of 32 grains of "C" type ball powder with the Speer's 150 grain bullet, proved futile when I discovered it shot six or seven inches lower than Remington or Western ammo at a mere 50 yards. Thinking this to be a matter of adjusting the powder charge, I loaded two cartridges each in two grain jumps from a very mild load of 25 grains up to 34 grains. In the shooting test with a 94 Winchester, all these loads grouped in a spot slightly larger than a silver dollar, but again approximately six and a half inches low. This powder had to be abandoned for 32 grains of 4895 or 3031 which placed the point of impact within the factory ammunition category.

If your rifle shoots low, more powder is NOT the solution for a handloader. This theory has been known to blow up guns! Increasing the charge of the IMR type powders often gives the opposite result—shooting lower. Here again, barrel vibrations, the invisible little men and technical factors take over. The advanced handloader is somewhat of a technician, and usually experiments until he arrives at the most accurate load within safe pressure limits, then sights in his rifle for this combination. He is very conscious of what mixed ammunition can do, and he avoids it like poison. The factory ammo consumer can likewise often find one make and type of ammo that performs better in his rifle. If so, he should zero for this and keep using it.


On the height of precision and efficiency, bench rest and competitive target shooters consider it unthinkable to switch loads dur-

ing a match, without re-zeroing. Why then shouldn't it be unthinkable to use mixed ammunition during your matches with game and varmints? Better yet, when you replenish your supply at any time, try your rifle again, and be certain it is still zeroed. Even different lot numbers can change your sighting-in. But generally speaking, any make and type will perform quite consistently from year to year. This is part of a big job the factories do for you.

Still another factor given scant consideration by many hunters is ammunition storage. A box kept in a cool dry basement will act differently than one left in a hot dry attic for a period of time. Hot dry storage renders ammo more potent, and with age can even become dangerous. The rifle you sighted in slowly on a hot 95 degrees-in-the-shade day, can shoot differently when it is 10 degrees below zero. A favorite trick some

advanced hand-loaders use to dispose safely of small batches of ammunition loaded "too hot" (too great a powder charge), is to store it in a refrigerator for a few hours, then target it out while still cool. A cool dry basement is an excellent place to store ammo.

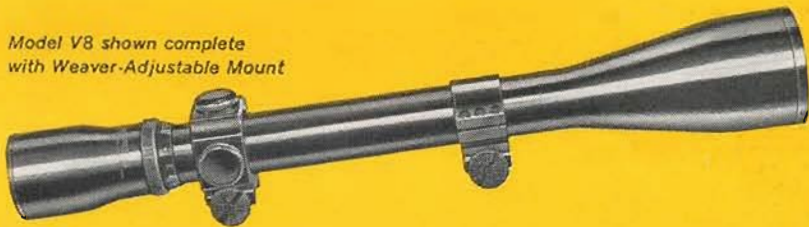
For general hunting purposes it does not matter a great deal which ammunition you choose, if caliber and bullet weights are adequate. Commercial ammunition and bullets are all of good to excellent quality. The most important thing is having your rifle shoot where you are holding your sights at the instant of trigger release.

The easiest solution is; get one make, bullet type and weight, zero in carefully and stick with it. If you do change ammunition for larger or smaller game, or any other reason, zero your rifle again. The practice always does you good anyway—if it isn't with mixed ammunition. 

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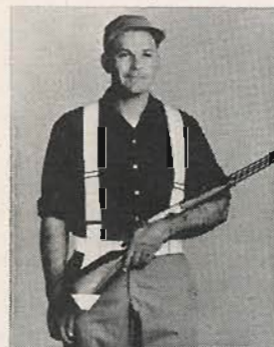
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# WITH Guns

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RELOADER SPECIAL is offered by RCBS, Inc., Dept. G-4, P.O. Box 729, Oroville, California. This regular \$45 value includes the RCBS "Ic" press with primer catcher, universal priming arm, and removable head type shell holder, plus one set of RCBS rifle or pistol dies in your choice of any of 25 calibers. The special price for this combination is now only \$39.90, saving you \$5.10.

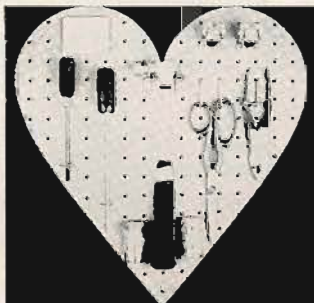


MODERN .22 CALIBER DERRINGER pistol has four barrels chambered for the .22 short cartridge barrels. This reproduction of a famous pistol of the 1800's has blue finished barrels, polished brass frame, and ornately figured plastic grips. Only 5 inches over-all, the pistol weighs about 10 oz. Single pistol is priced at \$34.95; pair of pistols are \$64.95. From Navy Arms Co., Dept. G-4, 689 Bergen Blvd., Ridgefield, N.J.

THE NEW 11th EDITION of the Williams Shooter's Catalog has been released by the Williams Gun Sight Co., Dept. G-4, 7300 Lapeer Road, Davison 10, Mich. Containing 266 pages, this large, comprehensive edition features sections on rifles, handguns, shotguns, scopes, sights, mounts, and allied hunting equipment. Scores of new products are introduced in the new edition. Price: \$2.00.



ACCU-RISER GRIPS, made of precision moulded Dynite, offer the best fitting target grips that are adjustable for the shooter's hand. Each is convertible for right or left handed shooters. These Fitz grips are available for the S&W .38 Master, Ruger autos, and the S&W Models 41 and 46. Accu-Riser grips for the Colt .45 auto and Hi-Standard Supermatics are available for right handed shooters only. Price, \$9.95, from your dealer or Fitz, Box 49797, Dept G-4, Los Angeles 49, California.



HANDY PEGBOARD TOOL KIT provides the tools you need for minor repairs. On the 16" by 16" pegboard are the following: chrome steel hammer with rubber grip; wire cutting pliers; heavy duty scissors; two 15 amp. fuses; regular and Phillips screwdriver with rubber handles; thumb tacks; and an assortment of nuts, bolts, screws, and nails, in plastic jars. The complete kit is priced at only \$5.95, postpaid. From Thomas Edlyn Co., Dept. G-4, P.O. Box 362, Collingdale, Pennsylvania.

"80 HOLIDAY HOMES" book offers complete selection of cabin plans: designs for A-frame cabins, traditional chalets, contemporary cottages, luxury lodges, rustic chapels and group-use lodges. Book available for \$1.50 from: Home Building Plan Service, Dept. G-4, 2454 N.E. Sandy Blvd., Portland, Ore.

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## QUESTIONS & ANSWERS

(Continued from page 9)

ing round. If you can find cases, you will have no trouble with bullets, as the 7.65 mm will handle any of our .30 caliber bullets.

If the 7.65 mm cases that are available do not suit you, the rifle can be rebored to a good standard American cartridge.—G.B.

### Hand-Cannon

While trading guns I have acquired a hand-cannon. Since I know nothing of its value or origin, I must seek help.

It is about 4½ inches long and the barrel has an inside diameter of ¾ inch. It appears to be made of copper alloy, and is mostly barrel with a flower and leaf design on each side and crude sights on the top. Near the back is a small hole for igniting the powder. It has no numbers or letters.

Can you tell me anything as to its age, value, or authenticity?

Charles K. Wilson  
Naples, Florida

About 99.9 per cent (or better) of those hand-cannons that one encounters these days are reproductions, and of very little value. They should be considered as a novelty or as a modern fabrication by serious collectors. From the drawing you enclosed, yours looks very much like those sold by Dixie Gun Works of Union City, Tenn., for about \$2.00.

Certainly there must be one or two of them somewhere in the world that are genuine antiques. I am sure that I am not qualified to give an expert opinion concerning such a piece. I suggest you contact the curator of Oriental art at a reputable museum.—G.B.

### Oviedo Mauser

I recently acquired a rifle that I'd like to know a little more about. The rifle is a 7 mm Mauser actioned military type with about a 22 inch barrel. On the barrel is a crown and the inscription: FABRICA DE ARMAS, OVIEDO, 1920.

The rifle appears to be in very good condition and I'd like to sporterize it unless it is not advisable. Could you tell me which model the Mauser action is as well as some general information about the rifle.

LCDR B. H. Miles, USN, Ret.  
Ridgefield, Wash.

Oviedo is the name of one of the Spanish arsenals. Obviously your rifle is simply a Mauser that was made in Spain.

If you wish to use that rifle in the original caliber there is no reason why you cannot "sporterize" it. I would suggest going easy on the cash outlay as it is possible to put far more into it than you will ever get out.

I'd have to see it to tell which model you have. The original Oviedo Mausers were the 1892 model, but what exactly they made in 1920 I'm not sure. If you have an 1898 you have a very good rifle.—G.B.



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# ARMS LIBRARY

## THE QUIET CRISIS

By Stewart L. Udall  
(Holt, Rinehart & Winston, New York,  
N.Y., 1963. \$5.00)

From the introduction, by John F. Kennedy, to the last prophetic sentence, this book is an inspiring message for all who stand in awe of nature.

The history of our nation's struggle to preserve the land, and the stirring story of the men who fought against the exploitations of forests, resources and wildlife, are brilliantly narrated by Mr. Udall, our Secretary of the Interior, who says; "America today stands on a pinnacle of wealth and power, yet we live in a land of vanishing beauty, of increasing ugliness, of shrinking open space, and of an over-all environment that is diminished daily by pollution and noise and blight."

If you are a hunter, sportsman, or just like the outdoors, I urge that you read this book, and heed the wisdom of Thomas Jefferson, Thoreau, John Muir, and the others who are represented within its pages.—J.R.

## THE GUN COLLECTOR'S HANDBOOK OF VALUES

By Charles Edward Chapel  
(Coward-McCann, Inc., New York, N.Y.,  
1963. \$10.00)

This sixth and completely revised edition is greatly enlarged and the values assigned to the numerous guns listed have, in most cases, been increased to keep abreast of the current values. For the collector, this Chapel book is a must, and if you trade or buy, even only one minute with this book will be well worth the time and money spent. For the student of guns, for the man who likes to identify guns, and for the all-around gun buff, the Chapel books are always interesting. If you are contemplating gun collecting, you should buy this book before you acquire your first gun. It is noteworthy to see that author Chapel plans other revisions as the spiraling prices demand—the latest edition is clearly marked 1964-1965 values.—R.A.S.

## I'LL DIE BEFORE I'LL RUN

By C. L. Sonnichsen  
(Devin-Adair Co., N.Y., N.Y., 1963. \$6.00)

Beginning in the 1840's, when Charles W. Jackson's "Regulators" fought their long, bloody feud with the counter-organization the "Moderators," to the last fight between the Reese family and their feuding rivals, this book follows the course, causes, and the effects of the great feuds of Texas. That  
(Continued on page 66)

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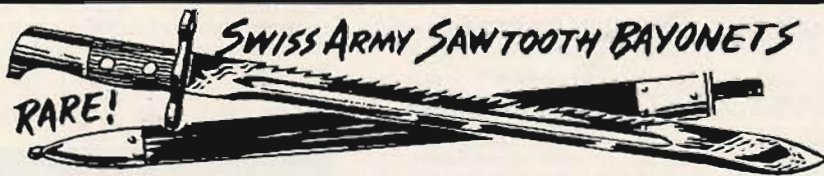
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## NIKE ZEUS—MISSILE KILLER

(Continued from page 23)

object was an enemy or a friend; 2—whether or not to fire at the target; 3—when to fire at a target; 4—how many missiles to fire at a given target; 5—which battery should attack a target; 6—whether or not target was destroyed. These human beings contribute to the defensive missile system one thing vital to a successful defensive operation: logical decisions which direct the efficient utilization of the defense.

"In the Nike Ajax and Nike Hercules systems it was feasible to use human beings for this purpose. However, the nature of the ICBM, that is, its tremendous speed, requires instantaneous and effective decisions to be generated with such speed and of such a degree of correctness that the human being's ability to supply them has been surpassed. In effect, we must substitute for the human brain an electronic brain capable of resolving instantaneously in the logical manner, all of the problems of decision as to how, when, and in what fashion to employ the defensive capabilities."

To understand the Zeus System, let's first take apart what it supersedes. The factors in the obsolete soldier-gun "system" are pinpointed in the schematic drawing on page 23. Here, the duck hunter is about to bag a 60 mph mallard with an "automatic" shotgun. The "sensor" (his eye) identifies the "target" as Sunday dinner material (i.e. not

a stray crow) and then, working with the "computer," gauges range, elevation, velocity, and lead. The results are telegraphed to the central nervous system which initiates and coordinates complex muscular and skeletal movements comprising the "gun-position servo" and weapon actuator. Years of trial and error and learning provide the "feedback" among all system elements required to bring home the legal limit.

Let's distinguish between automated and automatic. Automation is the substitution of scientific devices—mechanical, electrical, chemical, electronic, etc.—for human observation, decision, and effort. Automatic, as it applies to firearms, refers to a weapon's ability to self-load; fully automatic when holding back the trigger results in a continuous stream of bullets. A fully automated weapon system is one which operates without human interference, from target detection and discrimination to kill. (The most common automated gadget is the household oil burner.)

What ties together the rifleman's "sensor," "computer," and "servo" is a complex organism composed of specialized, interacting cells held together by skeletal muscles. His skull houses the 15 billion cell brain which receives, interprets, and organizes messages from the senses (eyes, ears, etc.) along intricate nerve pathways and then controls and

coordinates body movements and reactions. Hitting a duck calls for good sensory acuity and involves thousands of signals and movements of great complexity, precise timing, and synchronization. The hunter does his part by practicing enough to sharpen up the required refinements of judgement, reaction, and muscular control.

Originally, the military came up with semi-automated weapons, as in WW II automatic anti-aircraft guns. In the diagram on page 23 we see this applied aboard a ship in a manner similar to the Army's 75 mm "Sky-sweeper." Requiring manual control, this development featured electrical gun positioning based on computer fire data supplied by radar, plus automatic loading; all beefing up and extending the soldier's senses and muscles.

Now, let's look at the Zeus Defense Center System, a vast complex sprawling across more real estate than three or four Pentagon Buildings. The receiving antenna of the Acquisition Radar is a huge hemisphere 100 ft. in diameter, filled with 42 box car loads of plastic foam laced with metal slivers. Its transmitting antenna is as large as a baseball infield. Surrounding this is a 65 ft. high metal fence to shield personnel from the powerful radiation. The Discrimination Radar does the impossible: it studies incoming nosecones and picks out phony decoys sent along in a saturation salvo to confuse the defense. The massive Target Track Radar has a needle-thin beam for precision following of the hostile warhead. Guiding the AMM to intercept point is done by the Mis-



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sile Track Radar. The major brain and central nervous system, with 20,000,000 connections and untold miles of wiring, is the Target Intercept Computer, coordinating the heavy flow of data among the radars, and directing each "bird" to the lethal burst. It's a super-speed electronic brain capable of 200,000 arithmetic operations per second.

How does this gigantic array of electronic superlatives duplicate a live gunslinger and then proceed to handle a sharp-shooting chore far beyond mere mortal capacity? The diagram at the top of page 23 presents it in detail, and clocks the Nike Zeus "fast draw." The chart assumes warhead speed of 18,000 mph, interceptor speed of 7,200 mph and target acquisition beyond 850 miles. Thus, the nosecone is darting in at five miles per second or Mach 23 (about ten times faster than a .30-06 slug), while the Zeus is shooting up at 2 miles per second, or about Mach 10.

Here's what happens. The broad beamed Acquisition Radar, the most powerful in the world, ceaselessly sweeps hundreds of millions of cubic miles per second. It "acquires," or picks up, an incoming enemy missile hurtling earthward from its 600 to 1,000 mile apogee (high point) when the intruder bounces back a signal to the domed receiver. These impulses are translated into fire control data and fed into a "brain" which computes target track and point of impact and asks the Discrimination Radar whether it's a dummy or the real McCoy. The DR beam latches onto the object and sends its electronic picture to a Rogue's Gallery in the memory part

of the "brain" which checks it out as being a lethal warhead in 3 micro-seconds. Alerted, the Target Track Radar beam locks onto the real warhead and feeds continuous data on its position to the Target Intercept Computer. Calculating instantly the intercept point, this "brain" selects a rocket, warms it up and blasts it off. Then, the last radar follows it and provides command guidance, controlling the Zeus until it is ordered to detonate, destroying the target.

Recently, Western Electric received a \$213,385,000 contract to develop the Nike X System with faster computers, sharper radars, and the souped-up Sprint, adept at low altitude interception. Eventually, the Nike Zeus and Nike X will merge into a second generation system with greatly enhanced capabilities for handling the missile threats of the 1970's.

"In the beginning," says *Army Information Digest*, "the problems in ballistic missile defense seemed appalling in their enormity." Solving them became "one of the most complex Research and Development jobs ever undertaken." Today, the project is "accelerating toward the point of production decision."

Will the next war—if it ever comes—be a war of robot fighting robot, slugging it out intercontinentally, with the foot soldier watching it all on TV as envisioned by the science fiction writers? Could be. We have our first military robot, and it works. GUNS salutes the "fastest guns alive," Uncle Sam's Nike Zeus and Nike X.

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# THE AR-18 COMBAT RIFLE

(Continued from page 25)

So far, you will notice that we have not mentioned caliber, fire-power, and ballistics. The reason for this is that both the AR-18 and AR-15 are similar in all of these respects. They both use the .223 caliber (5.56 mm) ammunition, which was developed by ArmaLite in 1959, fired from a 20 round magazine at a rate of 750 rounds per minute. Both weapons have selectors for full- or semi-automatic functioning. Both the Army and the H. P. White Laboratory are conducting extensive tests which ArmaLite expects will show that the range and accuracy of the AR-18 is identical to that of the AR-15. Charles H. Dorchester, president of ArmaLite, said that an off-the-shelf AR-15 will fire three-inch groups at 100 yards (match accuracy for the M-1 and M-14), and the AR-18 has matched this performance.

One feature of the AR-18 that, according to an ArmaLite spokesman, makes it superior to the AR-15, is the hinged buttstock. The buttstock, made of a new polycarbonate plastic which is said to be virtually indestructible, when folded back, reduces the over-all length of the rifle to only 28 1/4 inches. This length, along with the full firing capabilities, makes the AR-18 ideally suited for paratroopers, commandos, armored personnel, and guerilla fighters.

The AR-18 design offers provisions which

enable it to fulfill a wide variety of combat functions: anti-tank or anti-personnel grenades can be fired from the standard rifle; a bayonet lug is integral with the front sight; a telescopic sight mount can easily be installed onto the receiver. Other features of the AR-18 include a bolt stop, which holds the bolt open after the last round has been fired; a convenient latch which drops an expended magazine with a flick of the trigger finger; a select-fire lever, operated by the shooter's thumb without removing the hand from the pistol grip; a rear peep sight, adjustable for windage and elevation, where aperture size automatically decreases when the range setting is increased.

Let's look for a moment at the reduced manufacturing cost, and see what it can mean, not only to the taxpayer, but to the small country that might be interested in adopting this weapon for its army. Hand-in-hand with reduced production cost goes the fact that practically all of the machine tools required to produce an AR-18 are generally available, or are of the type that, if new equipment must be purchased, is readily converted to producing civilian goods after production of the rifles is completed. This means that initial tooling costs are at a minimum. How inexpensive is the AR-18 to produce? ArmaLite claims that "tooling

needed for mass production can be fabricated for approximately one-fourth the cost of other modern automatic combat rifles," and that the AR-18 can be produced "for about half the cost..."

To kick-off the promotion of their new baby, ArmaLite conducted a demonstration at the Lorton Reformatory Rifle Range at Lorton, Virginia. Conducting the demonstration were Charles Dorchester, and Burt Miller, a retired Air Force Lieutenant Colonel, who is now a vice president of ArmaLite. The company also invited T/Sgt. Vern Duchek of the Air Force, who has spent a great deal of time shooting and testing the AR-15, and who has had more experience with it than anyone else.

To demonstrate the reduced recoil of the AR-18, the weapon was fired while holding it against the shooter's chin; the extensive demonstration also included firing two AR-18's at the same time, one from each hip. Demonstration firings, at ranges from 15 to 100 yards, showed that the accuracy of the AR-18 claimed by ArmaLite was not an exaggeration. To show the rapidity with which the magazines can be changed, the gun was fired full-automatic at two silhouette targets six feet apart and at a range of 15 yards...two clips of 20 rounds each were fired within about five seconds.

To top off the demonstrations, ammunition cans were filled with water, and shot at with .223 rounds and 7.62 NATO rounds. The 7.62 NATO bullet merely punctured both sides of the can, while the hydrostatic effect of the .223 bullet caused the cans to explode. Then, closing the act in a blaze of glory, a four-foot square concrete block wall was demolished by a stream of fire from the AR-18 within a few seconds, demonstrating the lethal power that can be carried by one AR-18 armed soldier.

Where the AR-18 will go from here is anybody's guess at this time. Whether ArmaLite will now, as they did with the AR-15, sell production rights to some other manufacturer, or whether they will produce the rifle, remains to be seen. One thing is certain; we'll be hearing more about this weapon in the near future, and before the echoes of the M-14 vs. AR-15 scuffle are stilled, there will be a growing rumble coming from some of the hallowed halls in Washington, D.C.

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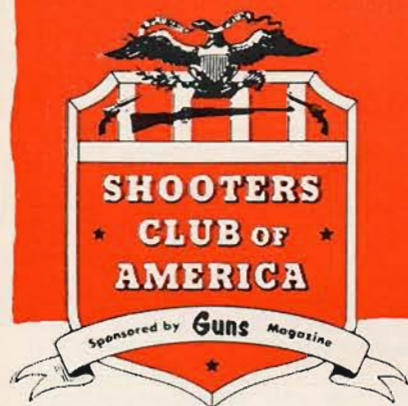
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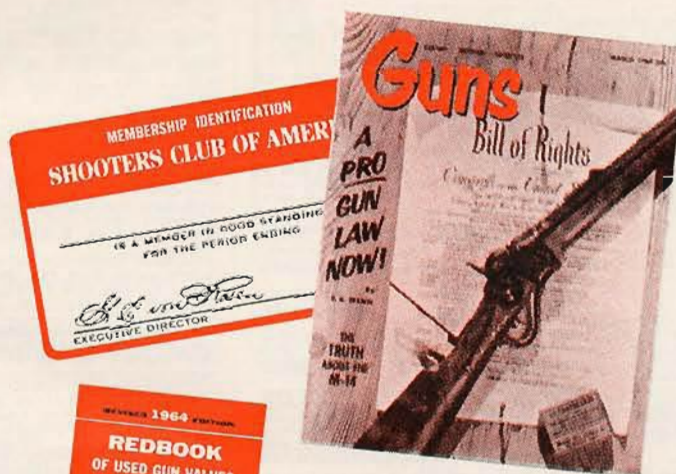
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(Continued from page 18)

ammunition, and clothing are normally "worn" in the same position.

Getting used to reaching for a handgun through layers of outer clothing appears difficult, but it can be done with some speed if a satisfactory method is found and practiced. Reaching for reserve ammunition should be an automatic and subsequent move. When heavy winter clothing is worn, the handgun will often be carried in the pocket on the side of the gun hand; sufficient spare ammunition for a full recharge, in the other pocket.

The self-loading or "automatic" pistol is faster and simpler to load than the revolver;



Left hand, under pistol butt, is aid to steady hold and accuracy.

charged magazines, carried handily, make reloading an instant job. Loose revolver cartridges often get mixed with car keys or handkerchief, or may slip out of the pocket through a small hole. They are best secured with a small rubber band to make a small package. A dozen rounds or so can also be stored in a snap lid glasses case.

Reloading techniques vary with the situation. Getting caught out in the open in a dangerous condition requires a great deal more calmness and loading dexterity than being able to reload in the relative safety of a protective barricade. In both cases, the reloading must be done speedily and correctly the first time. Groping on the ground for a dropped cartridge or two is no way to begin the second chapter of a life and death story. Snow cover often makes recovery of dropped rounds nearly impossible, and any effort to

sift or rake snow with the fingers numbs the hand — barehanded shooting is numbing enough.

Fortunately, the wadcutting type bullet is seldom used for defensive purposes, the square cartridge mouth is the most difficult to load fast. Round nosed and semi-wadcutting bullets feed into cylinder chambers quickly and fill the empty chambers most easily from a palmed ammunition supply as the cylinder is rotated by the other hand.

The belt-loop type cartridge carrier, usually worn by uniformed officers and some detectives, is slow to use. Cartridges must be pulled individually from the tight loops and pressed separately into each empty chamber. The leather box type belt carrier with bottom drop is faster, delivering six cartridges at once. Care must be taken to keep from crushing the box; once smashed flat, it may prevent ammunition from dropping freely, and trying to remove rounds from the top is a slow process.

Some pouch-type belt cartridge carriers grasp six rounds in leather lips allowing the shooter to extract as many as he needs without disturbing or dumping the remainder. Feeding three rounds into the cylinder in one motion gets the combat revolver back into action faster than any single loading system; this is a good technique for reloading from an exposed position.

Handloaded ammunition must be full length resized to ease chambering, and to allow usage in other guns of the same caliber in an emergency. Handloads should have bullets seated deep enough to fit the chamber without forcing, and all primers on combat loads should be double checked to make certain none are protruding. This fault can bind the cylinder when closing or revolving.

One of the failings of the standard PPC shooting method is the nearly reflex reaction which "forces" the shooter to empty his gun, particularly at close range, at the first target presented. British Commandos were taught to fire a two shot burst at each menacing target. Some advanced combat courses, such as the Hogan's Alley type, demand that the shooter conserve his shots. A combat course, using wax loads and slide-projected combat scenes, taught at the U.S. Marshal's headquarters at Anchorage, Alaska, required shot conservation and instant target selection to prevent impulsive shooting of non-dangerous targets.

Gun familiarity is of prime importance to the police officer as well as the armed citizen. Along with accuracy training, development and practice of a safe and efficient reloading habit will create confidence—and this good habit may save your life.

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(Continued from page 59)

Dr. Sonnichsen was able to gather so much complete information on the various parties concerned with these feuds is amazing—that he was able to chronicle it in an exciting and interesting volume is a credit to his abilities as an author and historian.—J.R.

### THE DEER HUNTER'S BIBLE

By George Laycock

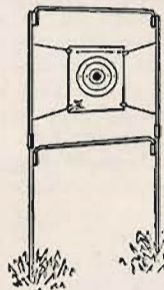
(Doubleday & Company, Inc.,  
New York, N.Y., 1963. \$1.95)

This is a fairly complete book for the beginning hunter. George Laycock covers gear, guns, where and when, the varieties of deer, and some other basics. Interesting are the chapters on camping and hunting deer with bow and arrow, but little mention is made about deer calling, rattling up a buck, the use of scent, and some of the tricks now in use. Quite outstanding are some of the photographs, and the section on deer weight.—R.A.S.



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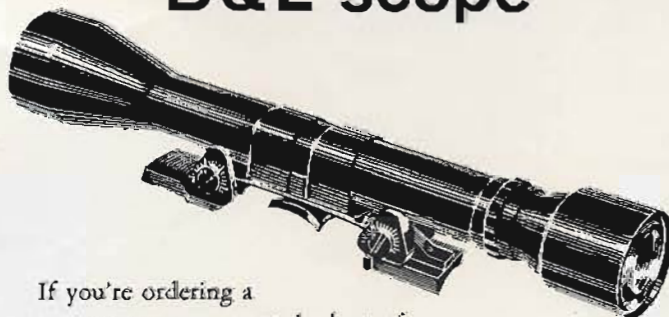
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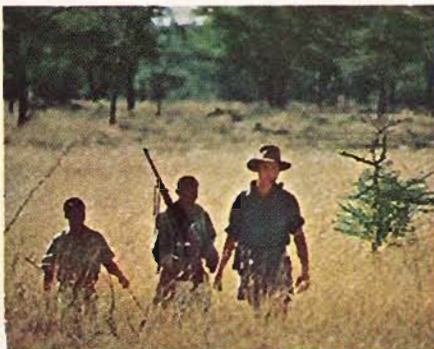


# How the new Winchesters went on safari with David Ommanney—our man in Africa.

And why we chose Tanganyika as the proving ground for our '64 rifles, shotguns and ammo.



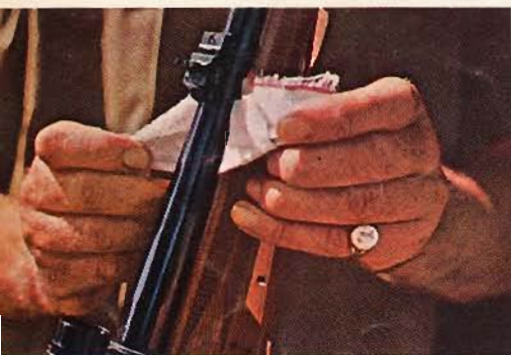
In his Land-Rover, our professional hunter leads the safari across the Serengeti Plain. Nearest you, in his all-Winchester battery, is the new Model 70-458 Magnum. Price \$310.



With gunbearer Salim, Ommanney returns from building leopard blind. Besides great herds of all kinds of plains game, there are many big "cats" in Northern Tanganyika.



This leopard was first of Africa's Big Five to fall to Winchester's new Model 70-300 Magnum (\$154.95). A single shot was enough. "This rifle really lays 'em in," says Ommanney.



New feature on our new Model 70s\* is this "free-floating" barrel. The stock's fore end does not touch it. No uneven pressure. Therefore *natural vibration*, straighter shooting.

\*except on the 375 and 458.



A single bullet (Solid) from our new 458 bagged this fine Cape buffalo. It hit him in the left shoulder; was recovered, in perfect shape, from just under the skin of his right shoulder.



This rhino was 100% safe (even from the 458). Like the giraffe and the cheetah, the rhinoceros is "Royal Game" in Tanganyika. We could shoot him only with our cameras.



We took along our new shotguns, of course. Here, Ommanney swings on sand grouse with the '64 Model 1400 automatic (\$134.95). Our new slide-action Model 1200 is \$96.00.



Only shot shell used was our new plastic Super-Speed and Super-X "compression-formed" Mark 5. "I never saw a shell made like it, or one that shoots so hard," said David.



On the last night before we struck camp, our man in Africa summed up: "It warmed my heart to see the new Winchesters at work. The way they did their stuff was *smashing*."