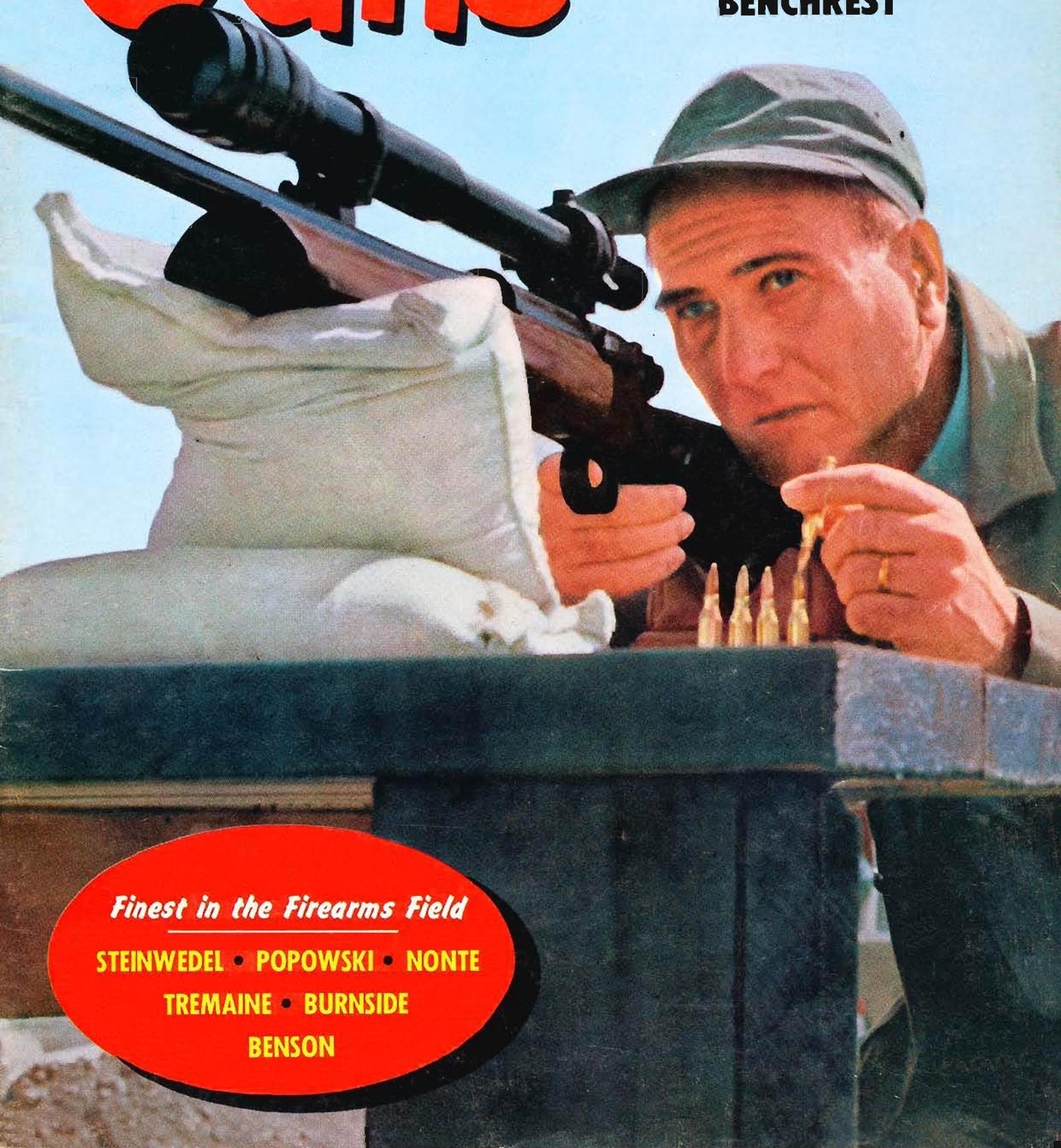


FEBRUARY 1964 50c

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# Guns

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# He, Being Dead, Yet Speaketh

—Hebrews 11:4

AN EDITORIAL

The pain of watching our martyred President lowered into the ground will never completely disappear. It aches today as it did then, brought to a throbbing intensity by the realization that in one infamous moment a twisted, misguided human, filled with hate, had taken the life of the leader of all of the people of the United States and sent him to eternity decades before his time.

Stunned, we turned from the news reports and asked, "Why?" And as incredulous as it may seem there were some who answered by saying, "... because that nut was able to get a gun, that's why."

And so the drum-beating begins. The after-the-fact people lift their heads from the sand. Conscience-stricken law enforcement officers and uninformed politicians try their cases in the newspapers. There is a great wave of public indignation and what is it aimed against? It is aimed against the gun instead of the gunman; against the inanimate, unthinking implement rather than at the assassin behind it... and the motivation behind him.

The compulsion to kill John F. Kennedy did not come from a gun—it came from hate. The gun was merely the instrument; it was hate, deep-seated and fierce, that made the instrument do what it did. We could have legislated against guns, rocks, arrows, and even mailed fists, but that would not mean that John F. Kennedy would be alive to lead us—because the assassin would have found another instrument with which to vent his spleen.

As the body of our late President lay in state in the Capitol rotunda, Chief Justice of the Supreme Court, Earl Warren, spoke of our nation's terrible perplexity:

"What moved some misguided wretch to do this horrible deed may never be known to us, but we do know that such acts are vitally stimulated by forces of hatred and malevolence, such as today, which are eating their way into the blood stream of American life."

In these words lie the answer to those who are looking for something to strike out against, to legislate against, to remove forever. **LEGISLATE AGAINST HATE, NOT GUNS.**

Justice Warren said further: "If we really love this country, if we truly love justice and mercy, if we fervently want to make this nation better for those who are to follow us, we can at least abjure the hatred that consumes people, the false accusations that divide us and the bitterness that begets violence."

These are undeniable and unequivocal words. If the people who have acted with such great fervor against guns could be mobilized in a gigantic, patriotic effort against hate, we would move infinitely closer toward the safeguards that our citizens are seeking, indeed need, against any recurrence of the nightmare of November 22, 1963.

We feel we speak for all well-meaning, patriotic, God-fearing shooters everywhere when we cry out against the anti-gun witch hunt that has followed John F. Kennedy's assassination. The dastardly deed has mortified us, shaken us, enraged us; but we ask non-gun-owning Americans everywhere to see the simple logic of the fact that taking away guns from their fellow Americans would not remove the real cause of our late President's death.

In the April, 1960 issue of GUNS Magazine, a member of the Senate Foreign Relations Committee wrote the following:

"By calling attention to a well regulated militia for the security of the nation, and the right of each citizen to keep and bear arms, our founding fathers recognized the essentially civilian nature of our economy. Although it is extremely unlikely that the fears of governmental tyranny, which gave rise to the second amendment, will ever be a major danger to our nation, the amendment still remains an important declaration of our basic military-civilian relationships, in which every citizen must be ready to participate in the defense of his country. For that reason I believe the second amendment will always be important."

The man who wrote that was the then Junior Senator from Massachusetts, the late John F. Kennedy.



Assistant to the Publisher

## GIVE TO THE J. D. TIPPIT FUND

Within two hours after the assassination of President Kennedy, Patrolman J. D. Tippit of the Dallas Police Department stopped to question a suspect. Suddenly three shots were fired and Patrolman Tippit lay dead. The outpouring of sympathy, comfort and help given to his widow and three children is one bright light in this dark, troubled world. Time may melt away the real emotion expressed by the people. We hope not. That is why we ask you—the readers of GUNS—to contribute what you can to the Tippit fund. GUNS Magazine has made a sizeable contribution, as much to honor Patrolman Tippit's heroic deed as to affirm our belief in the American way of life. We ask you to do the same. Make checks payable to: Dallas Policemen's & Firemen's Welfare Fund (For the Tippit Family). Send checks to: Dallas Police Department, 2000 Main Street, Dallas, Texas.

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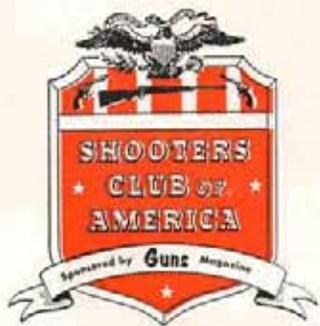
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## 7-POINT PROGRAM OF ACTION TO STEM THE ANTI-GUN HYSTERIA



The SHOOTERS CLUB OF AMERICA is shocked at the tragedy of the assassination of President Kennedy. In the wake of this infamous deed, the clamor for tighter restrictions on citizens possessing firearms grows louder and more unreasonable. The SHOOTERS CLUB goes on record to say that we are for any law that can effectively prohibit firearms to get in the possession of criminals, psychopaths, and any other irresponsible individuals. However, many uninformed but well-intentioned people are attempting to deny everyone the right to possess firearms.

The SHOOTERS CLUB has acted swiftly to combat these illogical and unworkable proposals. One week after the death of our President, the Editor-in-Chief of GUNS Magazine, E. B. Mann, participated in a taped interview on a panel discussion for a large Chicago television station. We have mailed thousands of letters to our members alerting them of the difficult times we have before us. One of our members, Mr. Camilli Pulcini, recently submitted a 7-point program of action to be used to stem anti-gun hysteria. We strongly back it and urge you to put it to use immediately. Write to your government representatives, your police department, to your own local newspaper. Let us all work together to stop the growing hysteria against guns:

1. Any legislation in the area of firearms control should be postponed for at least 30 days. At this time our country is in a state of hysteria and we cannot hope to get clear thinking.
2. Firearms legislation should be aimed at the unlawful use rather than mere possession of firearms. The laws concerning the carrying of loaded concealable firearms in public places should be made more stringent.
3. The basic right to keep a shotgun, rifle, or handgun in one's home or place of business should in no case ever be restricted. The uniform Crime Reports published by the FBI show that less than 7% of the crimes are committed with firearms—less than 1% with rifles.
4. Regarding mail order firearms there should be one variation in the method now used. Every purchaser should be required to send in some means of personal identification and proof of age.
5. If registration lists were established for ownership of guns, this would be a convenient way of disarming the private citizen at the whims of any subversive power that might infiltrate into the ranks of the police agencies across the nation.
6. There are those who say the second amendment to the Constitution is now obsolete because we now have police, national guard and a standing army to protect the rights of the individual citizen. But a look at any newspaper will show many stories of individuals who were shot, stabbed, or beaten while waiting for the "proper authorities to arrive." No police force or army can protect its citizens at all times.
7. As responsible individuals and gun enthusiasts we must write letters to Congressmen, Senators and other lawmakers—intelligent letters with sound arguments—and make our side of the story known to the rest of the country.

# Guns

FINEST IN THE FIREARMS FIELD

FEBRUARY, 1964

Vol. X, No. 2-110

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### THE COVER

The bolt-action rifle Artie Shaw is now using was built by Ed Shilen before Ed joined forces with Shaw, Williams, and Dewey. All of Artie's bench rest rifles are equipped with Bausch & Lomb scopes and are stocked to his specifications. Whenever possible, Shaw attends many of the eastern bench rest matches. Cover by Bob Tremaine with Yashica-Mat and Professional Ektachrome, f:16 at 1/250.

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# HANDLOADING BENCH

By KENT BELLAH



## Is Reloading Safe?

**H**ANDLOADING IS as safe as stamp collecting. It's lots more interesting and creative. A good doctor tells me it contributes to better physical and mental health and happiness. Unfortunately, we have an anti-reloading element, generally identified with the anti-gun element. They unjustly preach the "danger" of shipping, storing, and handling smokeless powder. They must be ignorant, or have blurred vision with dollar marks in their eyes.

To help calm the fears of wives and mothers, let's look at the "danger." SAAMI, a non-profit institution, published a booklet, "Storage and Transportation of Ammunition is SAFE." In extensive tests SAAMI proved there is practically no danger in shooting into full cases of ammunition with a hi-power rifle, dropping it 30 feet on a concrete floor, or burning it in a fire. They are right in saying it's safe. So are all components under all normal, or even greatly abnormal conditions of storage, handling, or transportation. Ammunition contains all components in their most potent form.

Smokeless powder, especially double-base (nitroglycerine content) type is the current kicking boy. It's unjustly accused of being dangerous to ship, store, shake, handle, or use. Dangerous raw nitroglycerine is "tamed" gentle as a puppy in powder. Put a pinch of powder on an anvil and wham it with a hammer to prove it isn't impact sensitive. When ignited it merely burns, similar to the old celluloid photo film or toilet articles. It doesn't explode unless confined, as in a gun chamber. Chips of photo film have been used as a substitute for gunpowder in cartridges. It actually works. Powder is flammable, but not explosive like the vapors of lighter fluid, gasoline, or a variety of familiar household products. While a reasonably "cool dry place" is ideal storage, powder won't ignite at 250 degrees F., a temperature that would kill every person in the nation.

C-H Die Co. made interesting movies of a chap burning a dab of rifle powder and some lighter fluid to show his wife the relative safety of powder. You can do it, if your wife has an abnormal fear of powder. Cellulose, the material in cellophane, is a major powder component. Wave a lighted match very close to a pinch of powder to prove the fumes are not explosive.

Restrictions have long been too severe on small lot shipments of smokeless powder, primers, and ammo. This hangover from black powder "daze" is getting worse. One insane idea was to prohibit shipments of less than 5,000 pounds. If that's safe, how the deuce is it dangerous to ship a few pounds?

Millions of tons of smokeless powder has been safely transported to the far corners of the earth under hot, rough, unfavorable conditions. It has jolted along in a blistering sun in horse drawn wagons, trains, trucks, ships and planes, yet arrives factory fresh. If the anti-reloading people were right, our gun stores would all be smoking ruins.

Hercules and Du Pont powders have enjoyed a spotless reputation for safety, quality and dependability for over half a century. I've handled and stored them since childhood under far from ideal conditions. They are safe for rank beginners to use. My dad, as a postmaster, strongly felt restrictions should be lifted on shipping small lots of smokeless powder, primers, and ammo by parcel post. His efforts to legalize it failed. Let's all work against additional unjust restrictions.

I've long preached the advantages of CCI Magnum primers for fast, perfect ignition and a minimum velocity spread. E. R. Imthurn made exacting tests in .38 Special loads in a S & W Model 10 with a 2" barrel. He used 9.0 grains 2400 behind Speer's 160 grain bullets. This powder is hard to ignite with ordinary primers and is considered too slow burning for snub-nose guns. Average velocity with CCI 500 (standard) primers was 671 fps, with an extreme variation of 105 fps. That's too sloppy for good loads. CCI 550 Magnum primers gave 686 fps, with maximum variation only 60 fps. That's well within acceptable limits for match grade ammo! All tests were with 10 rounds each. Primer "A" averaged 662 fps, with 142 fps extreme variation. Primer "B" 675 fps, with 108 fps extreme variation.

In a 6" S & W K-38 the CCI 500 primers averaged 756 fps, with 99 fps extreme variation. CCI 550 Magnums averaged 836 fps, with 68 fps extreme variation. A while back we tested 10.0 grains 2400 with 550 primers. M.V. was 960 fps, and E.V. 40 fps. I believe this is the best load with this bullet.

Unique is the best powder for snub-nose guns. In a 2" barrel a 146 grain Speer pill

with 5.5 grains and 500 primers gave 701 fps, and 106 fps E.V. The 550 Magnums gave 731 fps, and only 35 fps E.V., about twice as good as factory match grade ammo! CCI Magnums are truly a milestone of progress. I've proved it with many thousands in testing, on targets, and in the game field.

I've switched to CCI Magnums in all handgun loads of 4227, AL-8, 2400, Unique, 5066, W-W 230P and 295HP. All loads in this column with these powders over the years are better with CCI Magnums. The slight pressure and velocity increase can be ignored. I haven't listed excessive charges, but normal high pressure loads won't give excessive pressure if you switch to CCI Magnums. A chap using excessive charges of H-240 got some indications of higher pressure because the better, prolonged ignition burned all of the powder.

CCI Magnums give equally good results with all coated powders we have tested in rifles from very large cases to .222. Our tests with the Hornet and Bee with 4227 and 2400 are not complete enough to specify Magnums at this time. We'll report on the small hulls later. No charge adjustment is necessary in rifle loads I've listed over the years, or any loads we've tried from the Speer Manual. Hotter loads may require about 1.0 grain less powder. I especially recommend CCI Magnums for slow powders such as 4350 and 4831, as well as 4895, 3031, 4064, and similar types.

CCI's achievement in primers contributed to the superb accuracy of their "Hyspeed" .22 Long Rifle ammo. Knowing much about munitions chemistry, they also had the know-how for precision production, assembly and inspection. Their Hi-V accuracy is a major accomplishment. Production ammo, now at dealers, is superior to experimental types we tested. Early samples had unplated bullets. Velocity was 1299 fps. It was good, but a bit hot in some guns.

Production ammo has better copper plated bullets. It registers 1253 fps from a rifle, at 19,700 psi, plus better accuracy. It functioned perfectly in a variety of rifles, pistols and revolvers we tested, with all types of actions, in the best guns and some of the lowest priced ones. Sensitivity equals that of one of the older brands.

Rather than convert our center-fire drop tester to rim-fire, we used a K-22 with a mainspring thinned to give 33½ per cent misfires with one popular make of ammo, and fired 200 rounds each of three makes. The comparison results equal a drop tester, and it's a lot more fun to plink ammo. All rounds that misfired with the thin spring fired on the second try. A good many .22 "snappers" (guns that need repair) are in circulation. CCI Hyspeed doesn't cure this trouble, but it holds the accuracy of the gun to a very high degree. The 10 shot groups with fine rifles run around 1" at 100 yards, depending on gun and shooting conditions. This superb accuracy will cause CCI ammo to be called for by name by many shooters.

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(Continued on page 10)

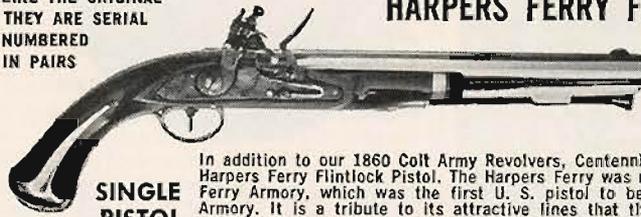
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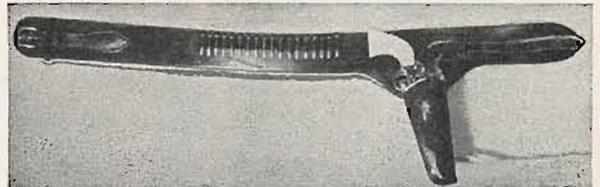
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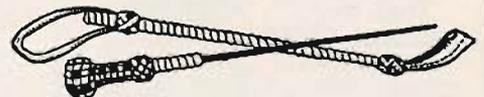
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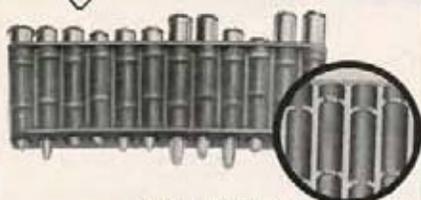
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# CROSSFIRE

## Ban Five-Irons?

Recall your article "This Very Day a Rock Might Kill You?" Well, a recent article in the local paper relates the story of a 41-year old man who narrowly escaped death when his broken five-iron slashed his jugular vein.

Maybe it's time we start a campaign to ban five-irons?

I enjoy reading GUNS. Your articles encompass all fields—military, civilian, technical, competition, etc.

R. W. Hildebrand, Lt. Col. USAR Rtd.  
Wilkes-Barre, Pa.

## Can You Help?

For years now I have been trying to get details of the personal weapons of the various police and secret police organizations behind the Iron Curtain.

I am working on a series of espionage novels—the Sam Durrell or James Bond sort of thing—and need this information to give background authenticity.

I would certainly appreciate any help you or your readers could give me in this matter.

B. W. Haven  
7 Tideswell Rd.  
London S.W. 15, England

## Build The Ranks

Attached you will find my application for membership in the Shooters Club of America.

I would like to express my gratitude to you for your fine efforts in publishing GUNS Magazine, and moreover, for giving the gun collector, shooter, hunter, and American citizen, who believes it is his constitutional right to own and maintain firearms, information on anti-gun activities, interesting stories, and help in selecting the best firearm for his use.

I have been inquiring among my friends and fellow workers as to their attitude toward membership in your club, and I have found most of them favorably inclined. Please send me additional application blanks and recruiting material.

Thad E. Houston, Jr.  
Fairborn, Ohio

*The material is on the way to you, and good luck in your recruiting. Remember, the more people you enroll, the stronger voice we'll all have in our fight against gun laws.*  
—Editor

## Attention Collectors

I would like to appeal to the readers of GUNS, if I may. I am working on a book which will identify the hundreds of lock plates, mechanisms, etc., of U.S. Martial arms of the 1816-1865 period.

While I have most of the more common

types, I need photographs of the rarer types of muskets, conversions, carbines, rifles, and handguns. The photos will not be used in the book (all illustrations will be line drawings), and they will be returned unharmed.

If any of your readers have photos that I might need, I would appreciate it if they would first write to me, giving full particulars on the photos they have.

Robert M. Reilly  
376 Magnolia Wood Dr.  
Baton Rouge, La. 70808

*Come on you collectors. Bob needs all the help we can give him on this tremendous project.*—Editor

## Likes Rosa

I want to thank GUNS for answering my question on Colt's London factory with the excellent and informative article by Joseph Rosa, in the November issue. Articles of this character make GUNS tops!

R. Horace Grigg  
Philadelphia, Pa.

## If the Shoe Fits . . . ?

All of us are familiar with the phrases "anti-gun fanatic" or "bigot," and most of the attacks I have read on these people in magazines such as yours label them as communists, old ladies, or vote-seekers with their own selfish motives at heart. I don't doubt that, in some instances, this is true.

Webster classifies a bigot as "one obstinately or intolerantly devoted to his own opinion." Therefore, gentlemen, I am making the accusation that your magazine and most of the people whose letters you have printed are hypocrites. These people of the shooting fraternity are as positive they are right as are the "do-gooders," and deserve the name of "bigot" themselves!

How many of you have shot at glass bottles and left the mess lying there; have taken pot-shots at road signs; have hunted on private property without permission; have "mixed whiskey with gunpowder" when hunting; have been rude to the landowner or careless with his property; have given little or no thought to the proximity and direction of people and houses with regards to bullet flight and/or muzzle report; have fired at the general bulk of an animal instead of a vital spot; or have wounded or questionably near-missed an animal and not bothered to track it down or investigate further? There is no doubt about it; these things happen much too often.

There is too much "dirty linen" in the hunting fraternity in the form of laziness,

thoughtlessness, vandalism, ignorance, and hypocrisy! It behooves us, the hunters, to clean out our "hampers" before we can look a lawmaker in the eye, point with pride to the Constitution, and boast that we have the right to keep and bear arms! In order to preserve this right, the people are going to have to show their appreciation for this right and treat it as a privilege shared by few other countries, instead of an all protective shield for those content to sit on their buffs and look the other way.

I am not saying that all hunters are slobs. I am a hunter myself, a devoted reloader, a pursuer of ye old woodchuck, and a fervent believer in a well-armed populace as the best deterrent to police state, invasion, and the criminal part of society. But, in order to protect ourselves against suppressive anti-gun laws, we must truly look inwards before indulging too much in outward criticism.

W. G. Mitchell  
Ontario, Canada

### Rebel Praise

Much has been said and written about the sport of fast draw in the past few years. Many times these articles and comments have not been too conducive to promoting the sport. The members of the Rebel Six Guns from Dallas County, one of Texas' largest fast draw clubs, would like to express their thanks to Jack Lawrence and GUNS Magazine for "Fast Draw Grows Up" in the September 1963 issue. We think that this is the finest article that we have seen on the sport of fast draw, and have recommended it to all members of the Texas State Fast Draw Association. It is our wish that everyone could read it.

Rae Lewis, Secretary  
Rebel Six Guns  
Dallas, Texas

### Bouquet For Serven

My principle interest is the Pony Express and its history. Therefore, I would like to congratulate you for publishing "Guns of the Pony Express," in your July and August, 1963 issues. I look at it, not for its reader interest, but as a doctor would examine a case history. So it is with pleasure that I write, saying that the research that author Serven did entitles the story to go down in the Pony Express Hall of Fame.

As we all know, there is so much loose writing about guns, that it is a real pleasure to read a beautifully researched article. It certainly expresses Mr. Serven's knowledge and recognized authority.

Waddell F. Smith, Director  
Pony Express History and Art Gallery  
San Rafael, California

### An Interested Party

As a Life Member of the National Rifle Association, a member of the United States Revolver Association, President and Chief Instructor of the South Suburban Rifle & Pistol Club, and a Certified Rifle, Pistol and Police Firearms Instructor by the NRA, as well as a collector of arms, I am deeply interested in multiple phases of safe and proper use of firearms for sport, target, and protection. It is quite intriguing to note that the efforts you have exerted in the many issues of GUNS have created an excellent

response against the poorly drawn legislative bills seeking to curtail the possession and proper use of firearms, particularly the short arms which are readily concealed. Whoever seeks to disarm the general public and prevent one from protecting his home and fire-side, does not comprehend that he or she is playing directly into the hands of the criminal element.

Best wishes for the continued success of your publication.

E. Stanley Brin  
Homewood, Illinois

### The August Cover

I was very pleased to note the August cover picturing a 1st Dragoon Colt from my collection. The epaulet, however, is not, as stated; "from the uniform of an unknown Confederate officer." It is one of a pair worn by Edenezer Whitelsey, Ypsilanti, Mich., First Lt. & Adj. 1st Infy., Michigan, killed in action at the battle of Bull Run, Va., Aug. 30, 1862.

The Colt is cased with Walker flask, martially marked as appropriate for 1st Dragoon and with all accessories. Thought your readers would like to know.

Gordon Kibby  
Museum Historica Curiosa  
Grand Rapids, Michigan

Your August cover is the best you've done to date. If copies without the lettering are available, I would be greatly interested.

A. W. Terry  
Seattle, Washington

*Sorry, but there is no way by which we can furnish copies of our covers without lettering. But we are delighted that so many people want them.—Editor.*

### Vigilant Reader

I would like to call your attention to an article titled "Where Johnny Gets His Gun." The article first appeared in *Parade* magazine, and was later condensed in the July *Reader's Digest*.

Although the article mentions, at the end, groups such as the National Rifle Association and Junior Rifle Clubs, this is negligible compared with the rest of the article. By the time an anti-gun fanatic gets finished reading such an article, he has blown it all out of proportion. This means more fodder to be fired at people like ourselves who enjoy firearms and treat them with all due respect to safety and proper gun handling.

I think you have a fine magazine. Keep up the good work combating bad gun laws.  
Attwood Kerr Howes, Jr.  
Clark's Green, Pa.

### Sportsman's Utopia

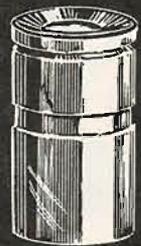
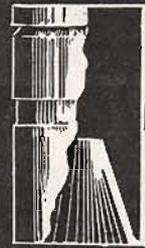
Just read the May issue of your magazine. The clipping, "What Makes The Crack Go Boom," was taken from the March issue of "Sporting Shooter" (Australia). There was no mention of the authors name.

Keep up your fight against Anti-gun laws. In Australia, the shooter is restricted to the eye-brows, especially in the handgun field, and we tend to look to U.S.A. as a sportsman's Utopia. Don't let us down! We are finding out it's a lot harder to change law than it is to prevent its acceptance in the first place...

J. B. Lewis  
Whyalla, So. Australia

# norma

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(Continued from page 7)

length resize and perform like conventional 3-die sets. Both are made in all popular calibers. The press takes any 7/8 x 14 dies.

The patented In-Line priming is excellent. Priming is one job the factory does better than most reloaders. SAECO's tool does it perfectly, with large or small, round or flat punches. Blueprints of the press, dies and priming got my A-OK in 1959. The tools meet my highest expectations for target, varmint and accuracy work, with precision alignment and workmanship.

The original SAECO Thermostat Controlled Electric Furnace is the pride and joy of many casters, including this one. Their later "Utility" furnace lacks the heat control in a lower cost large capacity dip pot. It's fine to alloy metals, but not the best for casting. SAECO's new "Thermo-Utility" furnace combines the best features of both models in a 20 pound capacity dip pot, with thermostat heat control for uniform bullets. It's well worth \$36.50, or they will convert your Utility furnace for \$12.50 plus postage. Dipping is faster for 4-cavity and larger moulds, so popular with target shooters, and many chaps get better results. The dipper or ladle keeps the mix stirred at all times. We can cast at the rate of 1200 bullets per hour with 4-hole moulds and a H & G pouring ladle. Lyman or H & G snout dippers are used with smaller moulds. You'll like the Thermo-Utility furnace for all alloying and casting.

SAECO's Lubri-Sizer is the finest for In-Line sizing to help start bullets in bore alignment. Mirror finished dies give the bullet bearing surface a chrome plated look to reduce friction and leading. We can identify bullets from a Lubri-Sizer at 5 feet beside those from our other sizers! SAECO improved the fine old Cramer; the nearest competition it had was the old Go-Wad, long discontinued.

SAECO's Tru-Speed powder measure, introduced in 1946, won fame as the most accurate for pistol charges. It was the only one that threw charges more accurately than most people weigh them. Their newer Micro-Setting model is faster to adjust, and excellent for all-around use. The Tru-Speed drums, still available, fit it. I specify these for critical light charges. It's convenient to keep Tru-Speed drums adjusted for your most used loads, and switch to the Micro-Setting drum for all others.

You may like a technique I cooked up in 1950 to lube and degrease cases. The idea may not have been original. Make suitable size sacks of terry cloth. Lube one inside with good die lube. Dump cases in the sack, and roll or handle them until they pick up adequate lube, then pour them in a box for sizing. Store the sack in a glass jar or other dust proof container. Degrease cases in a similar sack, using gasoline, naphtha or lighter fluid for solvent. Another sack is used to degrease loads with greasy nosed lead bullets. Sacks are washed in solvent when necessary, or discarded. Use much more caution with explosive solvents than with gunpowder! A distant fire may ignite vapors. Use outdoors or in a well ventilated room without open fire. Be very careful with explosive solvents!

Keep chambers and ammo oil-free. Oil

(Continued on page 50)

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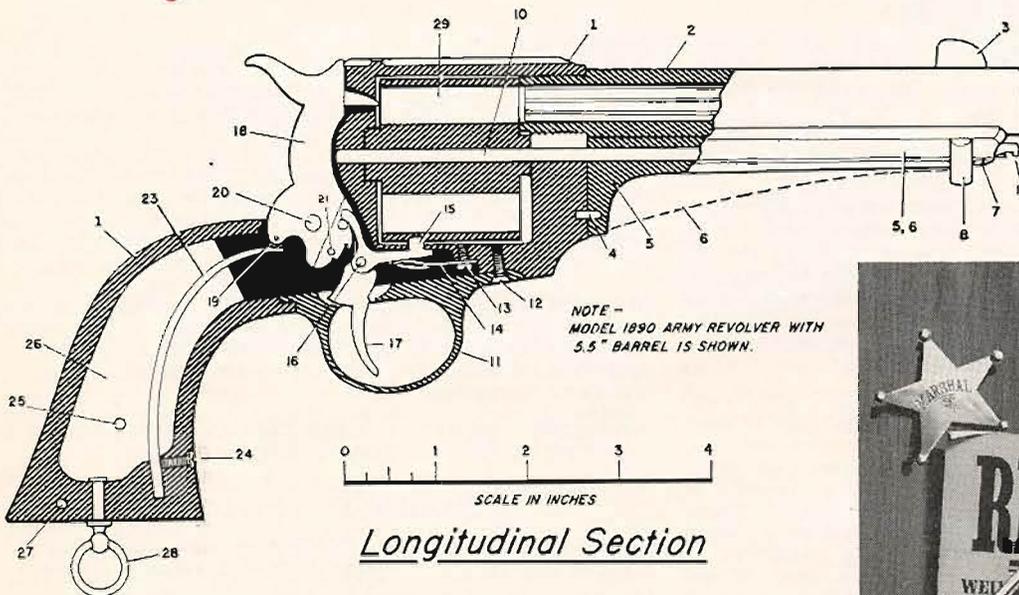
## Remington Models 1875-1890 Army Revolvers

MADE FROM 1875 until 1889, the Remington model 1875 Army Revolver, also known as the No. 3 Army Model, followed very closely the design of the older Remington percussion revolvers. The model 1875 was first offered in .44 Remington caliber which was interchangeable with the .44 Colt Old Model cartridge. In 1879, the model 1875 revolver was chambered for the .45 Government and .44 W.C.F. cartridges. About 25,000 Model 1875 revolvers were made until 1889, almost half of these having been sold to the Egyptian government in 1875, the balance having been made for the Army and for domestic civilian sales.

Civilian model 1875 revolvers were equipped with a small stud-type front sight and were generally plated with plain walnut grips. Army revolvers were provided with a blade front sight and lanyard ring. All model 1875 revolvers had 7½" barrels although many were later cut to 5½".

The model 1890 Remington Army revolver, sometimes called the Improved Army Model, was identical to the model 1875 except for the changed contour of the ejector housing. Made with 5½" and 7½" barrels and blade front sights, the model 1890 was made in .44-40 caliber only. Grips were checkered hard rubber, ivory, or pearl. About 2000 Model 1890 revolvers were manufactured between 1891 and 1894.

Disassembly is as follows: Remove grip screw (25), remove grips (26). Depress base pin catch spring (at front end of base pin), pull base pin (10) out to front. Open loading gate, remove cylinder (29) from frame (1). Remove ejector housing screw (7), remove ejector housing (5, 6) with rod (8), spring from underside of barrel (2). Remove trigger guard screw (12) and guard (11). Remove trigger and bolt spring screw (13) and spring (14). Remove trigger and bolt screw (16), drop trigger (17) and bolt (15) out bottom of frame. Remove strain screw (24) and drift mainspring (23) out of its seat in frame. Remove hammer screw (20), pull hammer (18) with hand and spring down out of bottom of frame until hand stud (21) can be unscrewed. Remove hand and spring from lower end of hammer, pull hammer up out top of frame. With trigger guard removed, gate plunger spring screw (34) can be removed with spring and plunger. Remove gate retaining screw and gate. Reassemble in reverse order.



*Longitudinal Section*

### PARTS LIST

- |                                 |                                                 |                                  |
|---------------------------------|-------------------------------------------------|----------------------------------|
| 1. Frame                        | 13. Trigger & bolt spring screw                 | 25. Grip Screw                   |
| 2. Barrel                       | 14. Trigger & bolt spring                       | 26. Grips                        |
| 3. Front sight                  | 15. Bolt                                        | 27. Grip pin                     |
| 4. Ejector housing stud         | 16. Trigger & bolt screw                        | 28. Lanyard swivel ring assembly |
| 5. Ejector housing (model 1875) | 17. Trigger                                     | 29. Cylinder                     |
| 6. Ejector housing (model 1890) | 18. Hammer                                      | Parts Not Shown:                 |
| 7. Ejector housing screw        | 19. Hammer roll & pin                           | 30. Loading gate                 |
| 8. Ejector rod & head           | 20. Hammer screw                                | 31. Loading gate retaining screw |
| 9. Ejector spring (not shown)   | 21. Hand stud                                   | 32. Loading gate plunger         |
| 10. Base pin with catch         | 22. Hand & spring (at left of hammer—not shown) | 33. Loading gate plunger spring  |
| 11. Trigger guard               | 23. Mainspring                                  | 34. Plunger spring screw         |
| 12. Trigger guard screw         | 24. Mainspring strain screw                     |                                  |



The Remington Model 1875 revolver played its part in the history of the frontier.



# If You Like to Hunt or Shoot...

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RIFLE SHOOTING

Every month of the year presents opportunities for shooting fun. By far, more people shoot during the hunting seasons than at any other time of the year. But many sportsmen seek off-season shooting enjoyment.

Prior to hunting season, nationwide sporting rifle and sighting-in day programs are conducted annually by NRA. Successful hunters know the value of sighting-in and practice with their sporting arms before hunting season.

During winter months, gun enthusiasts take the opportunity to sporterize military rifles, load their own ammunition, carve or check stocks and grips and take care of minor gun repairs. Others utilize the thousands of target ranges, indoors and outdoors, for shooting practice and competition.

There is a wide choice of rifle shooting activities. On indoor ranges at 50 feet, firing can be done in any one of four shooting positions. Bullseye targets, game targets, and luck targets add to the variety and fun. Outdoors, shooters have the opportunity to test their skills at longer ranges with .22 caliber and high power rifles. All shooting positions plus bench rests are used. Where space is limited, accurate pellet and air guns afford many hours of invaluable marksmanship practice at 15 and 25 feet.

Pistol shooting has become one of the fastest growing sports in America. Indoor pistol firing is done on 50-foot ranges, usually with .22 caliber pistols. Outdoor firing with .22, .38 and .45 caliber pistols provides shooting fun in all but the coldest months.

To supplement conventional shotgun shooting conducted by skeet and trap clubs, NRA provides shotgun qualification courses suitable for hand and foot traps that propel clay bird targets. Recognition and awards for target shooting as well as hunting are provided for NRA members.

In spring and summer months, most landowners welcome marksmen with the equipment and know-how for varmint shooting. Woodchuck, crow, fox, coyote, wildcats and other predators can increase hunting enjoyment, according to regulations of the various states.

As an NRA member you can take full advantage of the opportunities for year around shooting fun.

### You Can Be Proud to Belong

600,000 HUNTERS AND SHOOTERS—the members of NRA—invite you to join the National Rifle Association and enjoy the many benefits reserved for members. NRA members have a common bond of interest in firearms and their proper use. You can be proud to belong, because NRA is one of America's oldest and best-known associations. Through the years, NRA's membership rolls have carried the names of sportsmen from every walk of life, including five presidents of the United States. In addition to serving its members, the National Rifle Association serves the Nation. For example, millions of boys and girls have been taught the safe and proper handling of firearms. Another public safety project is NRA's Nationwide Hunter Safety Course with over one million graduates.

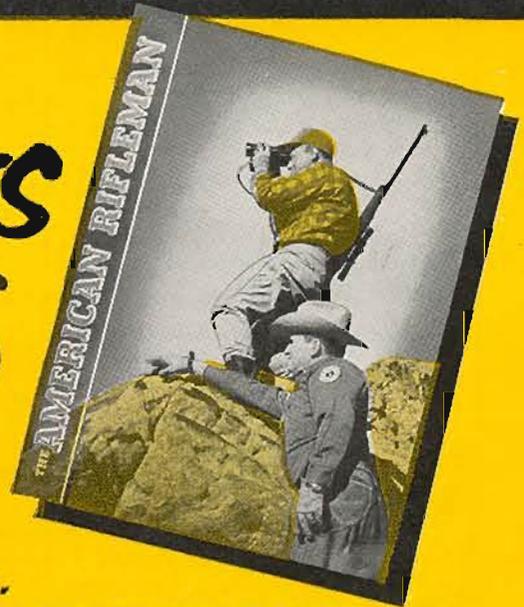
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*The Rifleman* comes to you each month as one of your NRA membership services.

### Preserve Your Right to Own Guns

Every citizen has a vital interest in his right to possess and use firearms. Since 1871 the National Rifle Association has stood against ill advised attempts to disarm our citizens through anti-firearms laws. NRA must continue to

take the lead in turning the tide of uninformed anti-firearms opinion. We need the voice and support of every American citizen who believes in the fundamental concept of the right to keep and bear arms.

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

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- Low cost gun and personal accident insurance.
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NRA Headquarters Bldg. THE NATIONAL RIFLE ASSOCIATION, chartered in 1871, is a non-profit association, supported by membership dues. The Association is recognized by federal statute, but receives no financial assistance from Congress.

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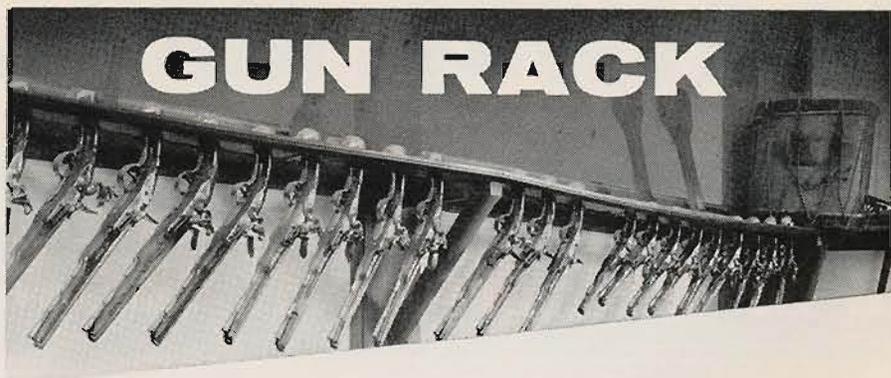
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**GUN RACK**

**Bushnell Binocular**

A new 6x25 Custom Compact binocular is now on the market from Bushnell and Co., Inc., Dept. G, 2828 East Foothill Blvd., Pasadena, Cal. Only three inches high and weighing only 11 oz., the binocular has passed all our tests, the ultimate one being a recent Wyoming hunt. The optics of the binoculars are good, but not quite adequate for glassing game at long range. A feature that is becoming popular is the special adjustment for those who wear glasses, and the center focus has an angle degree of sensitivity. The neck strap, a silk or rayon cord, is permanently fastened in the center of the focusing ring, and is much too long for comfortable carrying while hunting. Although shortening this cord is possible, it is not possible to shorten the cord enough, since the binoculars must be turned upside down for viewing. The long cord makes carrying it cumbersome since the glass bounces off the hunter's chest. This is perhaps a minor point, and these glasses were more than adequate for casual use.

**Charles Daly Shotgun**

While attending the Grand at Vandalia, we had a chance to put one of the new Charles Daly "Commander" shotguns through its paces. This over-under shotgun, made in Japan to Daly's specifications, is distributed by Sloan's Sporting Goods Co., Inc., Dept. G, 88 Chamber St., New York 7, N.Y.

The Commander features a ventilated rib, single selective trigger, automatic ejectors, fine engraving, exceptionally fine wood work,



and an automatic safety—excepting in the trap and skeet models where the safety is manual. The trap and skeet models have stocks proportioned to the sports, and chokes and barrel lengths are available in the widest possible choice. The gun is made only in 12 gauge, but it is hoped that the demand will justify making the gun also in 20 gauge.

The best endorsement we can give the gun is the fact that we broke 17 birds from the 21 yard line on the practice field—and this was the first time that we had one of these guns in our hands. The same gun was fired later by Joe Widner of the Lyman Gun Sight Co., and those who had a chance to examine the gun or shoot it, were most enthusiastic about the Commander. In the field grade, the gun will retail for \$255.00, in the trap grade, the price will be \$295.00.

The test gun had an exceptionally fine balance, woodwork and fitting metal to wood was very good, the lines of the gun are pleasing, and brought to the shoulder, it was a natural pointer. Best news of all is the weight—the gun tipped the scales at slightly under 7 lbs. and 4 ounces, a true feather-weight.

**Mauser Dial Caliper**

Most of us, and that includes experienced men, have on occasion misread the markings on a vernier caliper. Sherr-Tumico, St. James, Minnesota, are now importing a very accurate, stainless steel vernier caliper that has an instant-reading dial. Just insert whatever you want to measure, close the jaw of the caliper, and read the dial scale directly. This model, #1328, is available in inches or the metric system, and retails in gunshops for \$39.75. We liked our test model so well that we bought it, and in the short few months that we have used it, it has become our favorite vernier caliper.

**Simmons Super Glow-Worm**

When Ernie Simmons released the first Glow-Worm shotgun sights, we acquired a handful of them and fitted them to all our personal shotguns. Ernie has now developed a new twist for these sights. The top of the new sights is serrated, thus catching more light, and more light is thus reflected from the sights. This in turn gives you a better sight picture, and the flying target is more visible. You can get the Super Glow-Worm from your gunshop for only two dollars—a worthwhile investment.

**Winchester's .300 Magnum**

This newest bolt-action rifle from Winchester is hitting the spot with shooters. As we reported, the 150 and the 180 grain bullets print on the same point of impact, and as this is written, we have had several field reports about the Winchester .300 Magnum. One man, shooting in Africa, dropped a trophy buff at 150 yards with one shot. The 180 grain bullet, well-aimed, did the trick, as did six others which downed some dandy trophies—all one-shot kills. Gun tinkerers, being what they are, have been wanting to know what Model 70's can be converted to the new .300 Magnum caliber. Winchester tells us that in the group that is able to handle the cartridge, the .264 Win. Mag., the .338 Win. Mag., and the .458 Win. Mag. can be changed to the new hot-shot caliber. This work is done by W-W.

## Movies for Hunters

The Redfield Gun Sight Co., Library Div., 2130 S. Bellaire St., Denver, Colo. 80222, has recently expanded their film loan service. Now that the time of the long winter evenings is upon us and thoughts turn to the next season, a good many clubs and individuals are looking for entertaining outdoor and hunting movies. Write to Redfield, tell them when you want the movies, and they will send you a choice of titles, running lengths, and other information.

Speer Products Co., Box 244G, Lewiston, Idaho, and RCBS, Inc., Box 729G, Oroville, Cal., are offering a 30 minute, color and sound movie about elk hunting in the Idaho mountains. Write to either company for full details.

## Remington Rolling Block

Service Armament Co., Dept. G, 689 Bergen Blvd., Ridgely, N.J., now has the famed Remington Rolling Blocks. Chambered for the .43 Egyptian, these guns can easily be changed to .44 Magnum, and the guns we have seen are worth the trouble this job entails.

Val Forgett, genial boss of Service Armament, recently shipped us some dandy .22 targets. These are small cardboard disks that, when pasted on a backdrop and hit with a .22 bullet, will give off with a big bang, a brilliant flash, and a large and most impressive cloud of smoke. The brilliant red color of the disks is easily visible, but hitting them is a slightly different matter. They sell for \$1.25 per 12, and offer you a whale of a challenge and a lot of fun.

## Tornado Cleaning Brushes

Sheldon's, Inc., Box 509G, Antigo, Wis., offer the Tornado shotgun cleaning brushes. Essentially, these brushes are a spirally wound, non-corrosive wire that will clean any shotgun barrel without damaging the bore. The proof of its effectiveness was demonstrated in a much neglected black powder gun we recently found. Two passes with the brush and plenty of solvent, and the bore looked like new. The Tornado brush comes in all gauges, sells for only 75 cents in your gunshop.

## Moose Milk

That's right, the name of the product is Moose Milk and it cleans dirty gun barrels like few other solvents we have ever used. Sold by Hell Mountain Gun Shop, R.D. 2, Lebanon, N.J., Moose Milk is an aqueous solution and is not claimed to have rust inhibiting action. All it does is clean barrels, and Bill De Mott tells me that he uses it to clean black powder cartridge cases also. It works, and even badly neglected tubes respond to Moose Milk. Why not give it a try? We liked it.

## Pheasant Call

There is a flock of pheasants living in our backyard, and when we got the new Har-Ken pheasant call, we tried it on those birds. With a little practice, it is a fairly easy matter to imitate the call of a cock, and we managed to fool a couple of them enough so that they showed themselves. The plastic or "A" Model sells for \$3.00, the Wood or "B" (Continued on page 41)

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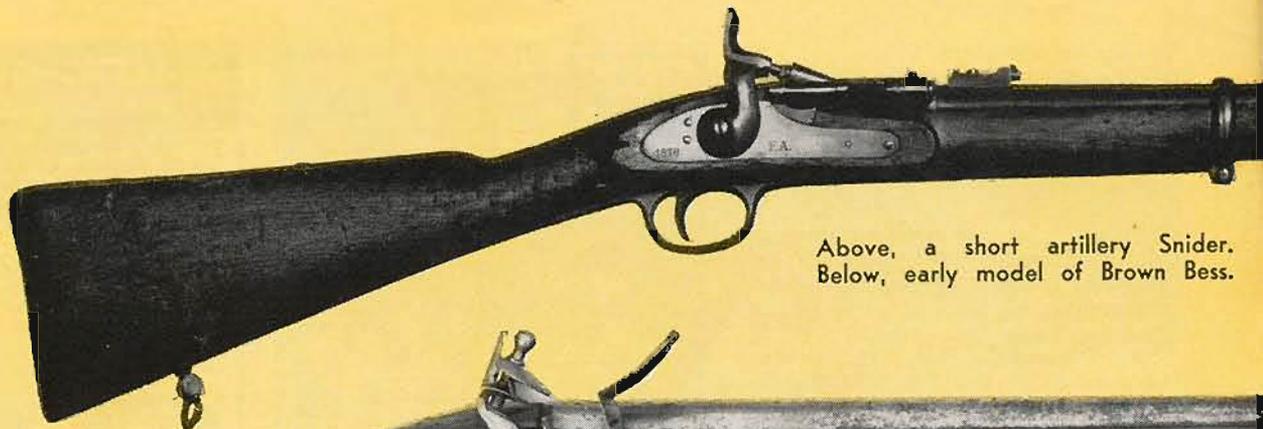
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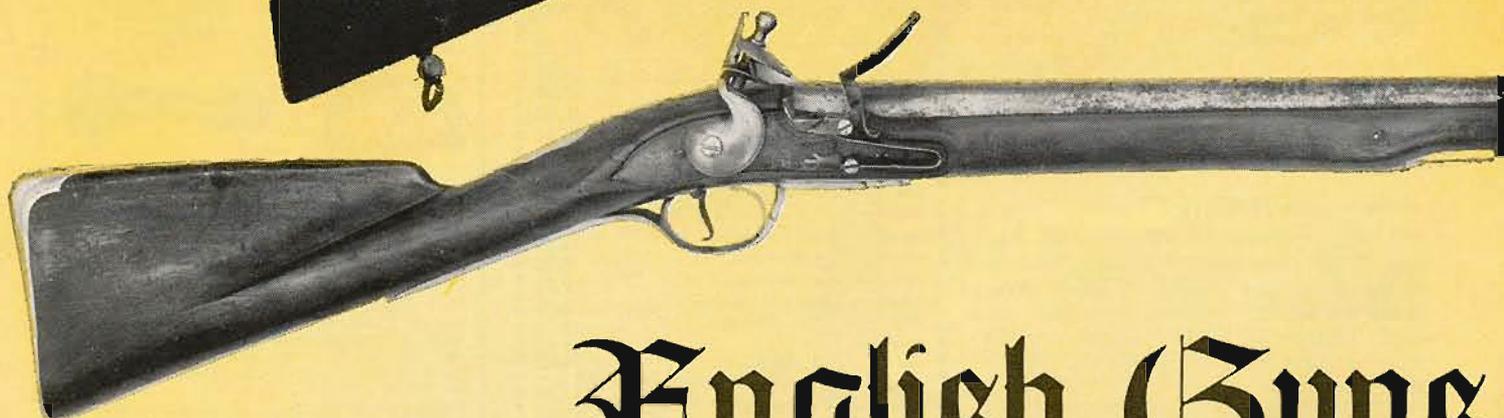
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Above, a short artillery Snider.  
Below, early model of Brown Bess.

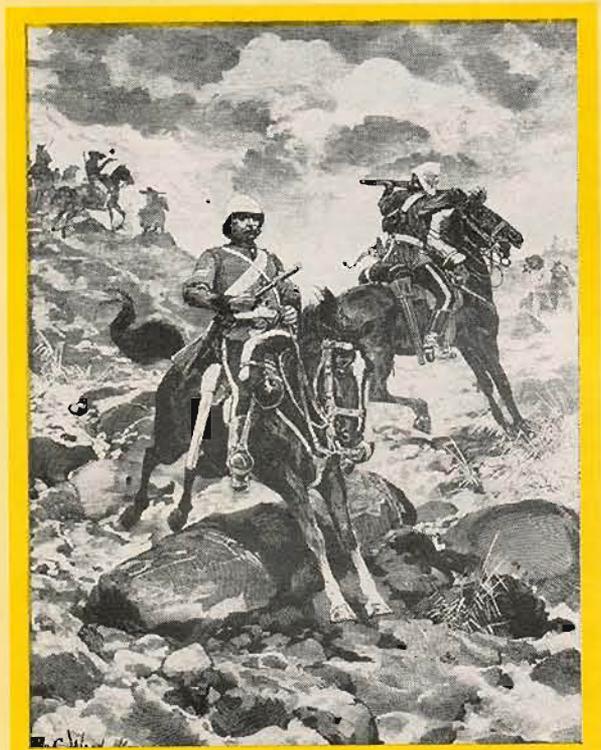


# English Guns

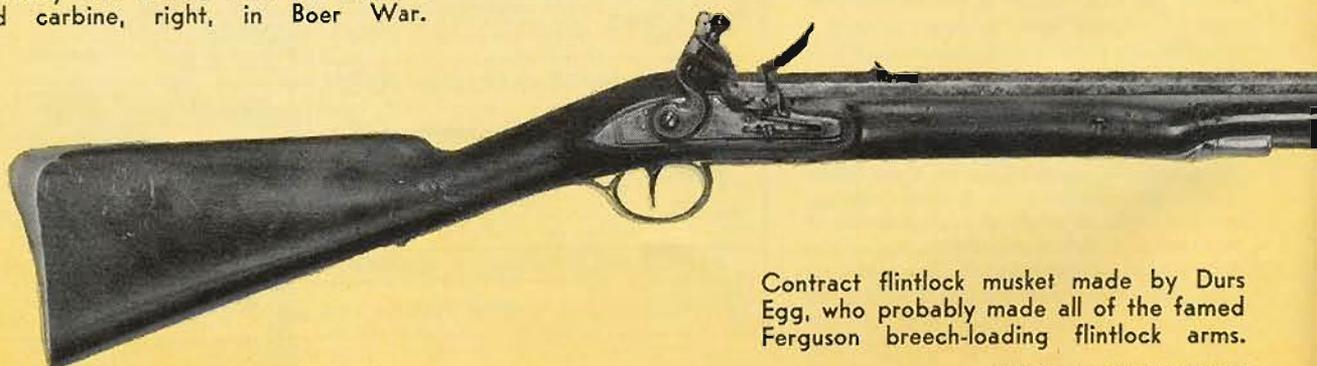
**RICH IN TRADITION AND HISTORY**

**BRITISH GUNS DESERVE OUR ATTENTION**

By LOUIS WILLIAM STEINWEDEL



The British cavalry was armed with the Mark I Martini-Enfield carbine, right, in Boer War.



Contract flintlock musket made by Durs Egg, who probably made all of the famed Ferguson breech-loading flintlock arms.



# for U. S. Collectors...

THE OVERWHELMING GROWTH of gun collecting in the last decade has voraciously gobbled up the limited supply of antique weapons to a point where once common pieces are bringing premium prices and reproductions are springing up like weeds. Yet, there is one vast world of guns that, though virtually scorned by the average American collector, has a history that stretches from the shores of colonial America to the African and Indian battlefields. These are the history-making, empire-building guns of England—guns that are equally as glamorous as the Springfields, Sharps, or Winchesters.

Although the contemporary British gun fancier is usually well versed on the history of American arms, the average American collector has only the dimmest notion of what his British cousin has been shooting during the past three centuries. This offers the far-seeing collector an unusual opportunity to reap some bargains in some mighty interesting antique arms. This does not mean that all English firearms are available at bargain prices—if you have tried to purchase a Forsyth pistol or a Ferguson breechloader, you'll know that this is not the case.

For convenience, let's divide British arms into three

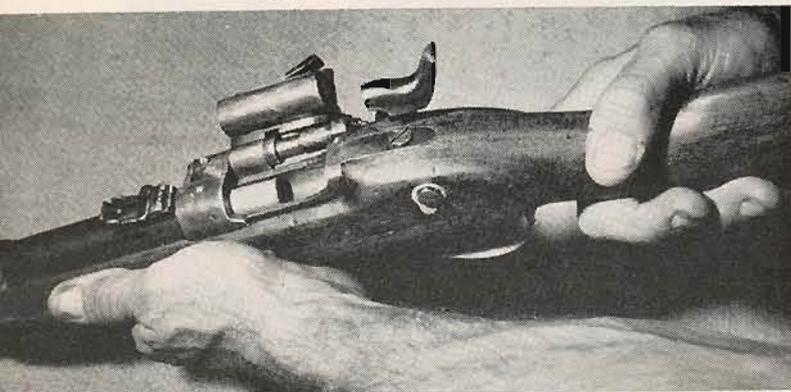
main parts: Officially adopted "national weapons," limited issue or experimental military pieces, and sporting guns. The official military arms follow a predictable and orderly pattern, and so present an excellent, uncomplicated, and relatively inexpensive project—even for the beginning collector of historic firearms.

The concept of the modern army and the first standard British army weapon appeared almost simultaneously in the reign of Queen Anne in the early 1700's. Before Anne, British military weapons had been a hodge-podge of guns from many sources which bore no resemblance to each other, sometimes not even in caliber. A "regular issue" gun for the entire army was made in 1703, and the freshly-made specimens were, in some respects, the first "modern" military weapon issued. The gun was a hulking, cumbersome monster of walnut and steel. Extending some five feet two inches, "Her Majesty's Musket" had a 46" round barrel of .75 caliber and baroque brass furniture which shoved its weight to almost fourteen pounds. The sturdy stock reflected the pleasing hue of aged English walnut, and the barrel and steel parts were a similar shade after their "pickling" in an acid bath called browning or "Russeting," which was intended to give some measure of protection against rust. This brownish color of the whole gun is traditionally accepted as the basis for the time-honored nickname "Brown Bess".

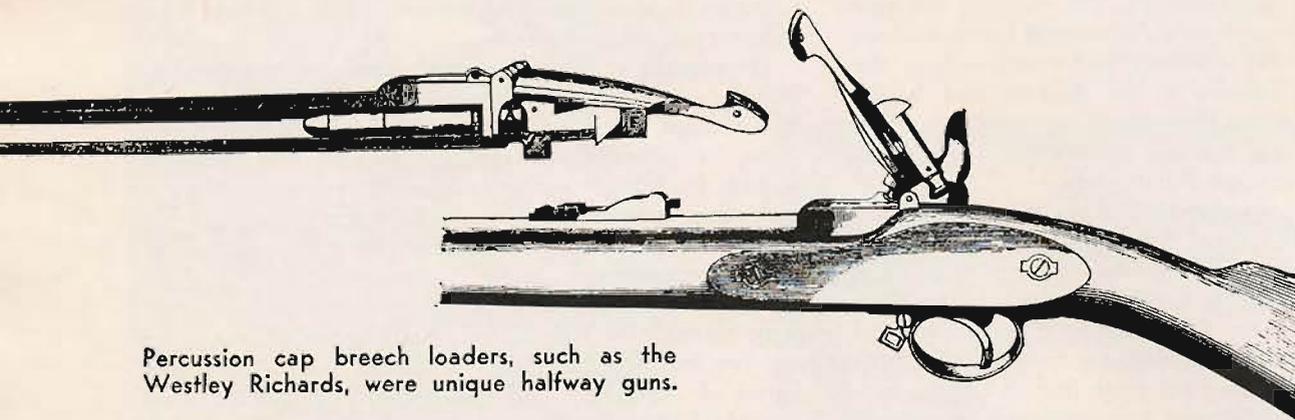
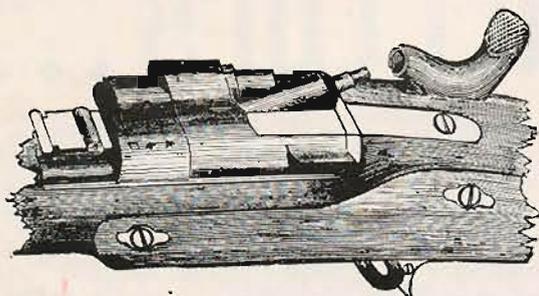
Bess's flintlock action, quite *avant garde* for its day, is of particular interest. By the use of a crescent shaped piece of steel called the *bridle* which was screwed onto the left (internal) side of the lockplate, the tumbler was held firmly in position to assure a strong, reliable lock. At about the time George II ascended to the throne in 1727, the idea of the "bridle strengthener" was applied to the screw holding the flashpan in place, this resulted in an even more reliable lock.



# English Guns



The Snider-Enfield conversion used breech mechanism of American design, fired .577 brass cartridge. Cut shows breech closed.



Percussion cap breech loaders, such as the Westley Richards, were unique halfway guns.

Beginning her service in the War of the Spanish Succession, Bess served through the colonization of North America, the French and Indian Wars, the American Revolution, the Napoleonic Wars, the War of 1812, and some even showed up in the Crimean affair in 1854. Throughout her career—the longest of any military gun in history—certain subtle changes were incorporated, which conveniently serve to date particular specimens which are not so marked. Originally the gun appeared with the 46" barrel. Characteristic of the earliest Besses were wooden ramrods held in place by four brass "pipes," and a curious upward, crescent-like curve to the bottom of the lockplate. About 1727 the bridle arrangement was added to the flashpan assembly, but it was not until the time of George III that barrels were shortened to 42" and lockplates appeared with a straight bottom. During this period the gun was stream-

lined and lightened. In the very late 1700's or early 1800's the gun was again re-designed as the "India pattern musket" and the barrel shrunk to 39" and only three brass ramrod pipes were used. The "India pattern" shortly became the service musket and showed up again in America for the War of 1812.

Surprisingly, all Brown Besses are not British. A few years after its adoption, the Brown Bess was issued quite normally to the loyal Englishmen who made up the colonial militia in North America. After 1776 when that loyalty became a bit suspect, and after stocks of Crown-owned muskets had been liberated from government warehouses, the fledgling Continental Army still found itself in dire need of guns. Local gunsmiths logically began to answer that need with "counterfeit" Brown Besses that have now become the rarest of the breed. The American preference for the Brown Bess apparently continued for some time, since an Ordnance report of 1825 accounted for some 2729 "British Pattern Muskets."

For a gun that is so closely entwined with a colorful history, the Brown Bess is still a bargain for collectors. The original production of about eight million pieces has, over the years, been reduced by use and abuse. Yet, there is an "adequate" number still around, sometimes at good prices. Recently, I picked up one in need of some repair for \$35.00 and good, sound specimens can still be had for around \$75.00. The Bess is a must for almost any collection—no other single gun in the history of arms development combines so much turbulent past in a single piece.

The tiny percussion cap soon dispatched the Brown Bess in its familiar flintlock form (although some were con-

verted to percussion), and Whitehall abandoned an old friend for the percussion musket in 1836, some five years before the U.S. This smoothbore gun was short-lived, replaced three years later by the Brunswick, a .704 caliber rifled musket. The Brunswick, despite its tendency to foul badly and lose accuracy, remained the standard British arm up to 1852. In this same period, one of the attempts to outmode the Brunswick resulted in the Lancaster two-grooved rifle, firing a conical ball with two moulded ribs to fit the rifling grooves. A few were issued to the Rifle Brigade and saw service in the Kaffir War in South Africa between 1846 and 1852.

Colonel Ferguson's superb flintlock breechloading rifle of Revolutionary fame and Ezekiel Baker's .61 caliber flintlock rifle, which did excellent service at Waterloo against rifle-armed Jaeger troops; (Continued on page 51)

**T**HE WEATHER HELD until we landed in Bethel, Alaska. Then it socked in, and stayed that way for eight days. No planes would leave the Bethel airport until the pilot could be certain that he could make out Nunivak Island shortly after leaving Alaska's coast.

Dr. Thomas Heldt of the Henry Ford Clinic in Detroit and I sat in Bethel, listened to the weather reports, kept in shape for the coming ordeal, and we fretted. We were to be the first ones to hunt the mysterious muskox in the only place in the world where they have lived undisturbed for untold generations. I was to collect a large bull muskox for the Anchorage Museum and Dr. Heldt came along to collect and then study the animal's brain and gather scientific data about its life.

Nunivak Island is located in the Bering Sea, about 45 air miles from the Alaska coast. A small village of Eskimo hunters and fishermen is the only inhabited spot on the island, and in the Bering Sea all the world's storms are created.

For several months of the year, its shores are crowded with evermoving ice that comes and goes. The land, and the water around the island, abounds with birds, game, and fish, and no matter what the weather conditions, there is always something to be hunted or caught. Its waters are loaded with fish, four varieties of seals, walrus, and whale. The land holds large numbers of reindeer, foxes are plentiful, and there are the muskox herds that have never been studied.

On the eighth day the weather broke and an old twin engine Cessna carried us and our gear to Nunivak Island. Although the muskox and the eskimos have shared the same island for many, many years, it was a great surprise to us to find that the natives knew less about the animals than we did. For many years the Fish and Wildlife people had told them that these animals were to be left alone, and that under no condition were they to be killed. Since meat is abundant on the island, the Eskimo prefers to have nothing to do with the muskox and has an almost superstitious feeling toward the animal.

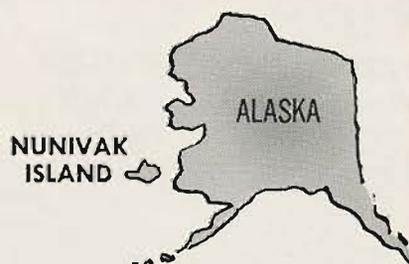
I finally managed to persuade Ed Shavings, one of the island's most advanced Eskimos, to guide me on the hunt. Although he finally agreed, I could sense and almost see that he was not overly anxious to undertake the job. With weather conditions deteriorating constantly and the wind blowing fine powdered snow until it hung in the air like fog, I had trouble finding my way around the village. How these (Continued on page 60)



The record muskox, fully mounted, on exhibit at the Anchorage museum.

## BAGGING A RECORD MUSKOX

By BERT KLINEBURGER



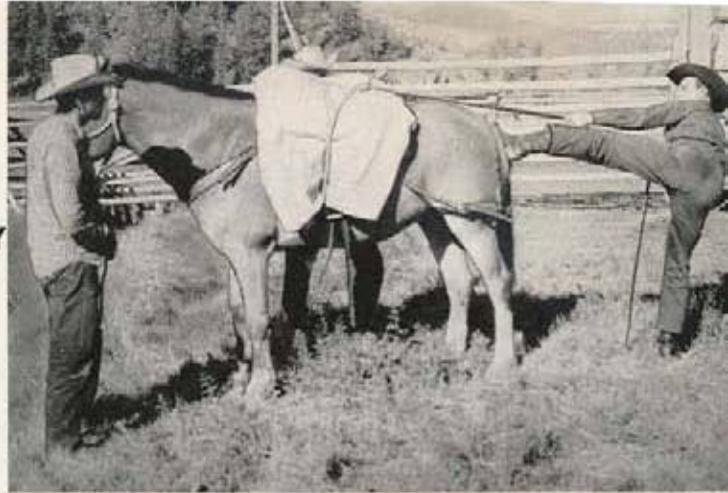
Author, above, examines his world record muskox where it was downed. At right, typical dog sled holds the Eskimo's bag of seals hunted on ice.



**IN SPITE OF ICE, SNOW, AND SUPERSTITIOUS  
ESKIMOS, A NEW WORLD RECORD WAS SET**

YOUNG MEN WHO WANT TO  
WORK IN THE GREAT  
OUTDOORS CAN NOW LEARN FROM MANY  
EXPERTS DURING PRACTICAL,  
IN-THE-FIELD TRAINING IN THIS

**A Guns Magazine  
Field Report**



Jack Streeter, NASC instructor in charge of wrangling, watches students tighten diamond hitch on pack horse.

# Conservation Classroom



This sextet of students from the North American School of Conservation check out their rifles before starting out on an extra-curricular varmint hunting expedition during the annual summer camp session.

By BERT POPOWSKI

**I**N THE FACE of the current population explosion, it is little wonder that the opportunities for outdoor employment are growing more plentiful every year. When 75 million people—casual daily visitors and those that stay several days—try to squeeze themselves into some 30 million acres of public parks and forests, these facilities are heavily crowded. Mere maintenance of such areas is a constant essential, and expansion of these facilities is tomorrow's crying need.

During the past decade, a part of that overflow of humanity has been absorbed into the rawer wilderness areas of our National Forests, and into the privately-owned timberlands. Lumber, paper, and pulp manufacturers, and thousands of smaller landowners, have opened their land to fishing, hunting, and family vacation use. Some charge a fee varying according to the facilities offered and the amount of maintenance required to keep the premises clean and attractive. Such sites generally call for plowing back a share of the annual income toward improving and maintaining the premises, and here are growing opportunities for men who are qualified in game propagation, predatory control, or any of the many outdoor jobs.

While most of the National Forests and privately-owned forest lands are in the northern and western states, the bulk of the smaller timber holdings are in the population-crammed eastern and southern states. Naturally, the demand for outdoor services is much more seasonal in the rugged-weather northern and western sections of the country.

Outdoor job openings are exploding everywhere, and in all directions. Less than 20 years ago, most of the National Parks and Forests opened about June 1st, and closed no later than Labor Day. This coincided with the three month period allotted to school vacations, and experienced high school and college students provided the labor force needed to care for the concentrated flood of vacationers and to maintain the parks. However, during the past decade, there have been some mighty changes made. Most National Parks now open on May 1st, and stay open from two weeks to a month longer.

During the course of the past decade, I have received a considerable amount of correspondence from young men who, after getting their first taste of wilderness living, either from a vacation in the wilds or through army experiences, wanted me to steer them into vocational openings where every day would consist of matching their wits and intelligence against the wilderness and the creatures which inhabit its plains, mountains, woods, and waters. But, ten years ago there were few outlets for their vocational hopes.

They could become state or federal game wardens of course, but only to the extent of the few openings then available. State and government hunters and trappers were in scant demand and high supply. Seasonal employment as fishing and hunting guides, fire lookouts, fire fighters, and rough labor on fish and game census jobs offered only very slim earnings. It was a most discouraging prospect.

Since then, the situation has brightened enormously. High schools, colleges, and universities now offer well-rounded courses leading to outdoor employment on a year-around basis. Many thousands of students now specialize in biology, botany, fish, game, and land management, and many other courses having to do with outdoor work and conservation.

But, that still left untapped a large share of the potential outdoor workers who could not afford a college (*Continued on page 56*)



A group of NASC students get ready for a lecture session, held in the camp lounge.



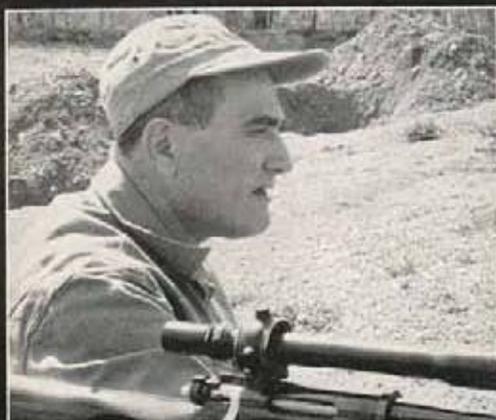
Game Warden Jim Oudin discusses game regulations with hoss wrangler Jack Streeter.



Demonstrations include the proper use of traps to catch nuisance bears for removal.

## A HOBBY BECOMES A SUCCESSFUL BUSINESS

### VENTURE FOR ONE OF THE NATION'S LEADING BANDBLEADERS



# Artie Shaw: BANDSTAND TO BENCHREST

**W**HEN ARTIE SHAW, King of the Clarinet, quit the bandstand he needed something that would offer a challenge, something that would be able to occupy him mentally as well as physically. The year 1949 was the eventful year for Artie. Seeing it from today's viewpoint, the day Artie was bitten by the gun bug was also a lucky one for the American shooter.

Artie decided to find out why so many people enjoyed shooting, why there was such a consuming interest in guns. In 1949 he started four position smallbore shooting, and successfully competed in several regional matches. Soon a .257 Roberts was added and these two rifles started Artie on a rather unique career. Now he is not only a highly qualified benchrest competitor, but also part-owner of the thriving Shooters Service & Dewey, Inc. operation

in Clinton Corners, about 100 miles north of New York City.

While Shaw was collecting trophies in the four position shooting league, he acquired a .22 caliber Anschutz match rifle, and in 1952 he succeeded in placing five bullets into one hole. That started him on the accuracy kick, and taking up benchrest shooting was the next logical step. He made the acquaintance of Gene Beecher at the Reed's Run, Ohio, matches, and shortly after the match, he acquired his first .222. This was a Shilen rifle with a Hart barrel, and last year Artie won the coveted second place in the Pennsylvania State benchrest matches. He used a 10½ lbs. sporter that is chambered for the 6 mm International cartridge.

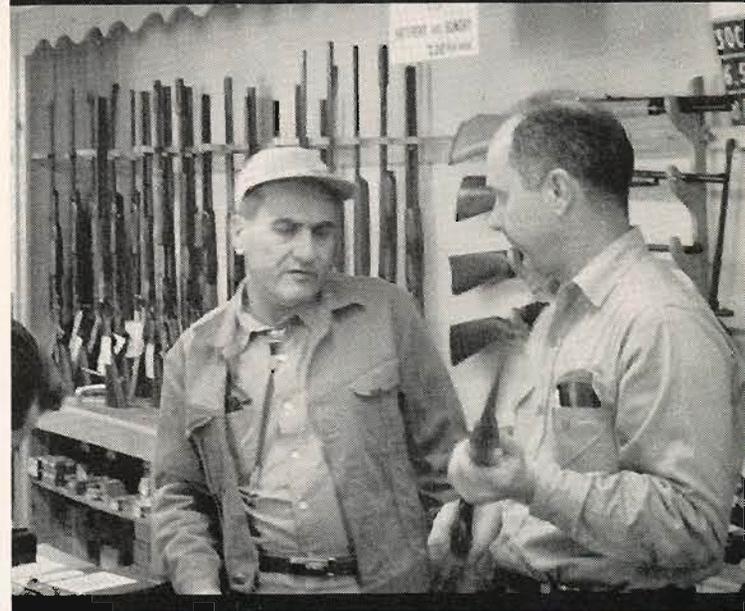
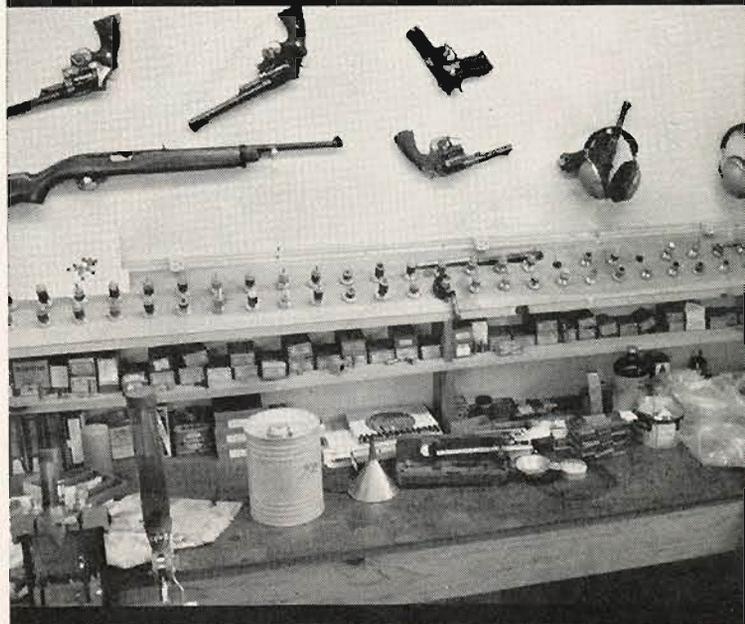
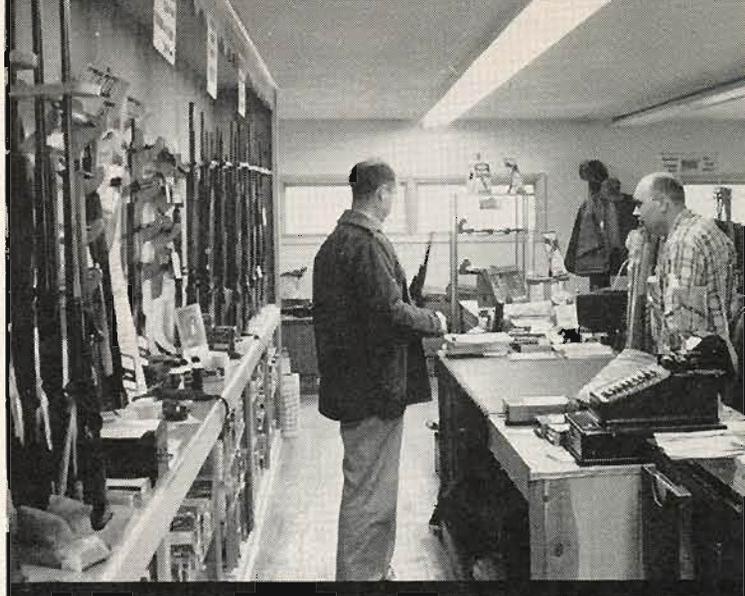
Artie has hunted all over the United States and has an enviable collection of trophies and heads. But his first and foremost interest lies in precision shooting, and in getting



Left: rifle range has target butts at 100, 200, 300 and 400 yards. Center: spacious store area displays every shooting accessory from guns to loading tools. Right: John Dewey presides over the well-equipped gunsmith shop.



All weather test-firing facilities.



Top: Mason Williams is on hand to answer shooter's questions. Center: fully equipped loading bench is set up for custom loading and development. Below: Shaw and Williams discuss shooter's scope problem.

By BOB TREMAINE

five shots into one hole. "I know it can be done, and as a matter of fact, it has been done. But now I want to make that hole smaller; let's say that I want to place five bullets into one hole, the hole having the diameter of the bullet. When I get this done, I'll try and do the same with a light sporter." Having seen Artie shoot, I have no doubt that the Shaw name will make headlines in the gun literature one of these days.

In his quest for a super-accurate gun and load combination, Artie met Mason Williams. Mason, an ex-banker gone gun-nutty, was then operating the Shooters Service Inc. He and Jim Shulhoff, a full-time New York State Game Conservation officer, had obtained a license from the late Jim Harvey to produce and market the Jugular Jacketed bullets. Mason and Jim are both experimenters and gun tinkerers, and the commercial swaging was, for a while, the only claim to fame Mason and Jim could make. But from making bullets it is but one small step to developing loads, then custom loading, and before either one of them had realized it, Shooters Service had outgrown the barn that housed the Company. A range was acquired, one chronograph replaced the other, and in a little more than two years, S.S. had become the mecca for east coast shooters. The company was in imminent danger of having too much business and too little place to conduct the business in. "We just had to move, especially when Jim and I brought our own guns down here and began to work up loads for our benchrest rifles and handguns. It finally got to a point where we had so many customers that we had to issue numbers, like in a supermarket." It was time to move, build a bigger range, add more shooting facilities, and take on a complete line of shooting equipment. Next to the space problem, the most important consideration was finding a good gunsmith who would join the company.

Artie and Mason began to look (Continued on page 43)



Busting plastic bleach bottles at 500 yards on far bank of gravel pit was a part of the pre-hunt training Gerry Steindler received.



# Pronghorns...

Despite prickly pears and missing one shot, author seems pleased with the very symmetrical horns of buck.



WE HAD NOT EVEN traveled two miles, when Bert Popowski pulled the Toyota Land Cruiser to a stop. Motioning to the mountain on our left, he casually said: "Get out there Bob. In that draw, there is a herd of prongies, and there should be a good buck among them. Remember to keep down, don't show yourself until you are in shooting position. Watch the prickly pears and the rattle snakes. When we hear the shot, we'll drive over there and watch you dress out your buck." My wife turned around in the front seat, gave me an encouraging grin, and I tumbled out of the back of the Land Cruiser, chambering a round into my Remington Model 700 in 7 mm Magnum.

This was my first antelope hunt, my first trip into Wyoming game country, and also my first experience with prickly pears. I started my stalk, and in order to crest the hill—I still claim it was a mountain that Bert picked for me—I tried to complete my stalk in the best infantry infiltration course fashion. The one thing I had not counted on was the complete penetration of the prickly pear spines—and a sentinel prongie doe. Just as I could make out the buck's head—and he would have gone 15 inches easily—the doe spooked, the whole herd taking off in high gear. I tried a long shot, and having heard about antelope speed, led the buck about three full body lengths. The 154 grain Hornady bullet kicked up dust at least 10 feet behind the critter. When Bert and Gerry arrived, I was busy pulling thorns out of my hide, my shirt, and my blue jeans. Instead of sympathy, I got a razzing from Bert and my better half who had been primed in the time it took me to complete my stalk.

This entire Wyoming trip was an upshot of my Idaho elk hunt in 1962. When my article appeared in the February 1963 issue of GUNS, Bert wrote me and editor Bev Mann. He more or less implied that he did not believe that I could hit the broad side of a barn from 15 feet, and that, in order to prove myself, I had better get out there next season and show him what I could do with Wyoming "goats" and mule deer. The crowning insult was the post-script. If I could not get away, I should send my wife who also hunts and is one of the finest game cooks going. Her fame had spread among the gun nut fraternity, and he would welcome her visit.

Since Gerry had not done much rifle shooting in the last two years and did not even own a suitable gun, most of the summer was devoted to coaching her



Gerry congratulates Bert Popowski on his 80th prongie, shot with .300 Weatherby.

# Speedy and Spooky

**WHEN TWO GUN WRITERS GO ON A BUSMAN'S  
HOLIDAY, AND ONE WROTE THE WYOMING "GOAT"  
BEHAVIOR BOOK AND THE OTHER  
MISSES A SHOT, MOST  
ANYTHING CAN HAPPEN**

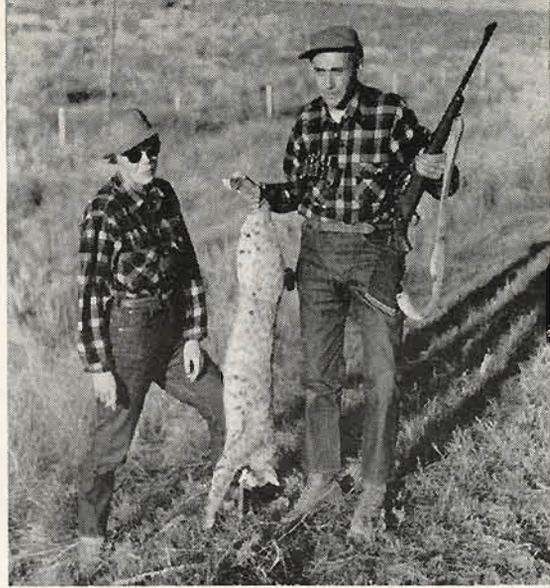


Toyota Land Cruiser handled well in the rough, hilly ranch lands.

# Pronghorns...



After a jarring ride, scope setting is checked by Gerry before we arrived at the hunting area.



Model 70 in .270 proved effective on the bonus bobcat as well as on antelope and mule deer.

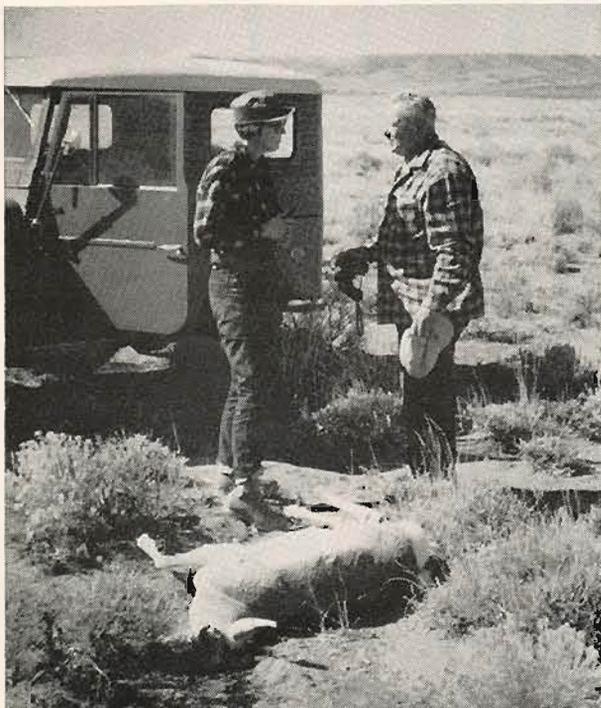
in the fine art of rifle shooting, doping wind, and guessing distances. She started with her pet .257 Roberts that had been custom stocked by the Chicago Gun Center. She then graduated to a Model 70 Featherweight in .270. Topped with one of the new B&L mounts and the new Balvar 8A, she was able to shoot MOA groups with handloads from a bench without trouble. My shooting layout is ideally suited for training a budding hunter, and Gerry took to the training the way a duck takes to water. At the end of the summer she was able to hit plastic bleach bottles at 500 yards with disgusting regularity, even after climbing the side of a steep hill. She learned to flop into any solid shooting position, using the Latigo sling for carrying

her gun and as hasty sling. And believe me, the bleach bottle supply began to run real low at the end of the summer, especially when she learned to send one of them rolling and then hit the bottle again and again while she operated the bolt of her Winchester without taking the gun from the shoulder. I don't believe in reduced practice ammo, and she learned to shoot moving and stationary targets with full hunting loads. I had settled on the 130 Hornady bullet and 58 grains of Hodgdon's 4831, set off by a CCI 200 primer. When she placed four out of five shots into the lethal area of a deer target at 300 yards from the sitting position, I felt that she was ready to bring home the winter meat.

I had readied my own .270, but the gun suddenly would not group for sour apples. First we blamed stock warpage, but a close inspection of the barrel disclosed that the tube had been shot out. I selected Remington's Model 700 in the hot 7mm Remington Magnum caliber, took the Balvar 8 off the .270, slapped a Latigo sling on the gun, and was all set. In testing the gun, I found that my load with 68 gr. of 4831 or 77 gr. of 5010 would shoot the same point of impact, and the 154 grain Hornady pill did a beautiful job in grouping five shots. I found best ignition was achieved with the CCI Magnum 250 primer, and both guns were sighted in to hit point of aim at 225 yards.

Before leaving home, I had made arrangements to pick up a Toyota Land Cruiser in Gillette, Wyoming. I had heard a great deal about this Japanese import, had seen one in action in Idaho. After checking with Bert, it was decided to use this trip to find out just how good the Toyota really is. After bouncing around the Wyoming landscape for a week and covering over 700 miles of some of the roughest terrain that we could find, all of us came to the conclusion that the Toyota is one of the finest and most rugged four-wheelers available today. It is roomy, handles well on the highway at 65 miles an hour, and on cross country treks, it performed extremely well.

We made headquarters at Bert's home in South Dakota, and made the trip to Newcastle and Don Baldwin's MW ranch daily. Don raises rodeo horses and Brahma bulls plus some cattle, and Bert often hunts predators and prongies on Don's extensive ranch. The mule deer hunting area did not extend to Don's land, and it (*Continued on page 48*)



Gerry got sage advice on proper method of field-dressing her antelope from veteran Bert Popowski.

**FOR TRICKY SHOOTING,  
AND A MAGNUM LOAD OF FUN,  
TRY THIS NEWEST SHOTGUN SPORT**

**T**HE LATEST CHALLENGE to shotgun fans is a ten-shot, clay target game called "Crazy Quail." For off-season practice or just plain fun, this new combination of skeet and trap shooting is just what the doctor ordered.

W. B. Mason, operator of the Snug Harbor Shooting Preserve in Carrollton, Texas, was one of the first to construct and operate a Crazy Quail set-up, using it as a warm-up for quail and pheasant hunters on his preserve. His customers soon found that they enjoyed this challenging game of claybird busting so much that they kept coming back for more. Here's how it works.

The target pit can be square, as shown in the photos, or round, and contains a simple practice trap mounted on a swivel base. This base also holds a seat for the trap operator and two shelves for the targets. Because the trap is mounted at an angle to permit the targets to clear the pit walls, the targets are thrown in a high arc—there are no low birds.

The shooter stands in one spot, at least 16 yards from the pit (distances can be increased up to 27 yards for handicapping) and, when ready, calls "Pull." The trap operator releases the target any time after the shooter's call, and in any

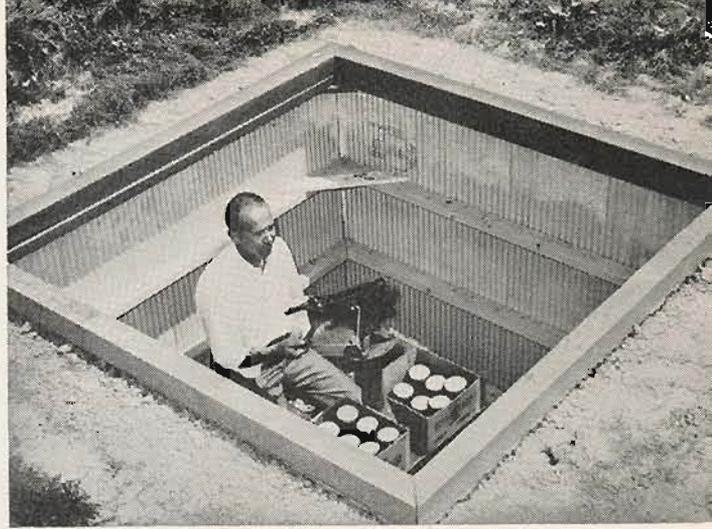
# CRAZY QUAIL!

By JOHN BROZ

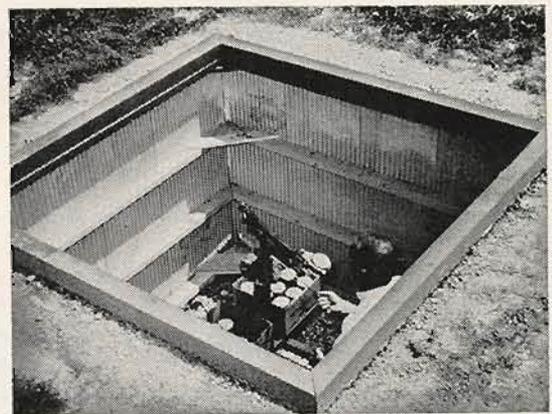
direction he chooses—even directly toward the shooter. Once the shooter calls "Pull," he cannot move his feet. A target thrown in his direction must be broken before it passes over him.

Depending on the local terrain, nearby obstructions, etc., local ground rules may vary, and there are a variety of games that can be devised using the one installation. With the trap operator out of sight and below ground level, the shooter has no knowledge or control over the flight path of any target, and should stand in a position which will enable him to swing in almost any direction.

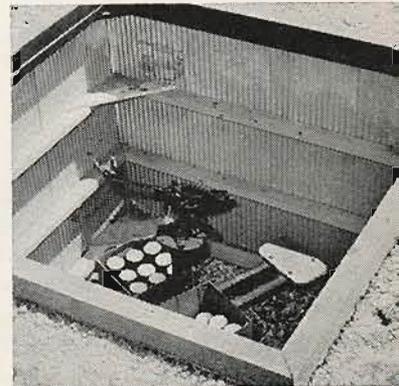
Here's a new, inexpensive way for any gun club or shooter's group to add new life to their regular get-togethers. Interested clubs can get a set of blueprints from Olin Mathieson, Conservation Department, East Alton, Ill. Watch for these games to be popping up throughout the country, and if one opens near you, try it—you'll be pleasantly surprised at the fun you'll have trying to outwit those Crazy Quail.



Top photo shows typical pit. Operator sits on a swivel, permitting him to swing the trap 360 degrees. Shooter sees only a low hedge, and cannot see which way trap faces.



Trap, mounted on an angled base so that targets clear sides of pit, throws clay targets in high arc. Trap installation is low in cost, ideal for small gun club.



# ...ABOUT THOSE BELTED MAGNUMS



The venerable .30-06 (top), shown with two belted magnum rounds, the 7x73 mm Vom Hofe Express (center) and the .300 H&H Magnum (bottom).



Larger belted head of .300 H&H compared to .240 Apex (center) and .400/375 Express, at right.



The .300 H&H, at left, followed by the family of U.S. made short belted magnums using a 2 1/2" case. The .264 Win., 7 mm Rem., .338 Win., and the .458 Win. African.

By CAPT. GEORGE C. NONTE, Jr.

LONG BEFORE WORLD WAR I, Holland & Holland designers were working on the development of a new cartridge. What was wanted was a high intensity cartridge that would feed through a magazine rifle, and since the Mauser action was then prevalent, the case should not be a rimmed one. Moreover, since the cartridge would be on the hot side, the tenuous relationship between case and chamber shoulder left much to be desired and, if at all possible, the new case should seat in the chamber on a solid rim.

If only shoulder engagement of the case in the chamber were feasible, then a long, slender case with considerable taper and slight shoulder angle would complicate the creation of the desired cartridge. This case shape was, however, dictated in all probability by the spaghetti-like cordite powder then popular with British arms makers, which had to be loaded into these bottleneck cases before the final necking operation was performed.

The headspace problem could have been eliminated by the use of a true

rimmed case, but this head caused feeding problems.

What evolved was a conventional rim greater in thickness, to the point where it was impossible for one rim to get in front of another in the magazine. This thick rim (to become known as a belt) appears as an enlarged portion of the case head nearly 1/4 inch in length; its forward face provided all the headspacing advantages of a true rimmed case.

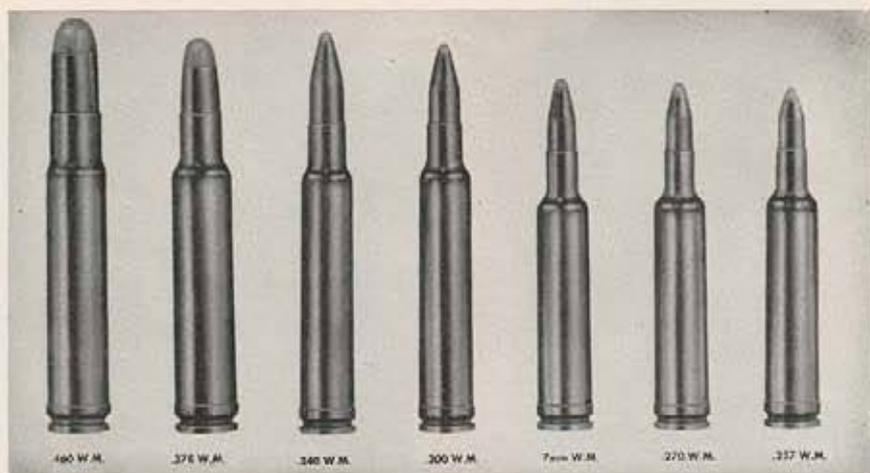
Rather than attempt to make a special extractor that would reach far enough forward to grasp this belt, a conventional Mauser type extraction groove was machined into the belt proper, allowing the use of existing actions without major extractor change and producing a much stronger case head. Thus was born the ideal solution to Holland & Holland's problem. The belted case (referred to by the Britons as "rimless belted") had all the advantages of both rimless and rimmed cases and was readily adaptable to Mauser actions. The first H&H belted cartridge, the .300, was announced in 1912 as "Holland's Super 30."

From these developments came the .300 H&H Magnum and the .375 Belted Rimless Nitro Express. Developed for the British market, these two new calibers nevertheless slowly spread to the United States where various custom gun makers began making arms for them. The old Hoffman Arms Company offered a slightly improved version of the .300 with a steeper shoulder angle and a bit more powder capacity. The first U.S. rifles were built on the expensive imported Magnum Mauser actions because of the great length of the loaded rounds. Eventually, the Model 1917 Enfield was found to be suitable when properly altered. Either way was rather expensive, the long Mauser actions costing in the vicinity of \$100.00 each, and immediate interest was not earth-shaking.

In 1936 a gentleman named Ben Comfort won the 1000 yard Wimbledon Trophy match at Camp Perry with a custom built .300 H&H Magnum and interest in the cartridge took a decided upswing. About this time, Winchester announced that their relatively new Model 70 bolt action rifle (replacement for the older Model 54) would be available in both .300 and .375 caliber, and with their ammunition.

Meanwhile, our British friends at Birmingham had not been idle. Several new cartridges based on the H&H case had been developed. The .33 BSA (Birmingham Small Arms Co.), .400 BSA, and the .26 BSA Belted Rimless Nitro Express cartridges were all modern looking, sharply bottlenecked numbers. With today's powders and bullets they would probably do quite well, but they were never really big sellers and very few of them reached this side of the Atlantic. A new H&H number known as the .275 Magnum was considerably more successful. Quite a few guns were made for it here, and Western Cartridge Co. produced the ammunition for a few years. It was and is a good cartridge and spurred quite a few similar wildcat designs, and some of them are still with us.

After Comfort's success and Winchester's introduction of rifles in the H&H calibers, interest continued to grow. Many wildcatters, some of them quite responsible people, began to work the long belted cases over with an eye toward improving performance with U.S. powders and bullets. Keith and associates produced the .285 OKH and the .334 OKH (Continued on page 44)



The current series of Weatherby cartridges. All, except the .378 and .460, use the basic H&H case. The Weatherby line covers all types of hunting, from crows to Cape Buffalo. Not shown is new .224 Varminter.

#### BELTED CARTRIDGE DATA

Caliber	Date Produced	Bullet Weight	Muzzle Velocity FPS	Muzzle Energy FP
.224 Weatherby	1963 to date	50	3800	1135
.244 H&H	? to date	100	3500	2725
.257 Weatherby	1945 to date	87	3825	2828
.26 BSA	1923-1947	110	3100	2350
.264 Winchester	1960 to date	100	3700	3040
.270 Weatherby	1945 to date	130	3375	3283
.275 H&H	1926 to date	160	2700	2600
7mm Remington	1962 to date	175	3020	3540
7mm Weatherby	1946 to date	154	3160	3406
7x61mm S&H	1954 to date	160	3100	3410
.300 H&H	1912 to date	180	2920	3400
.300 Weatherby	1945 to date	180	3245	4201
.300 Winchester	1963 to date	180	3070	3770
.308 Norma	1961 to date	180	3100	3842
.33 BSA	1925-1947	165	3000	3300
.338 Winchester	1960 to date	250	2700	4050
.340 Weatherby	1962 to date	200	3210	4566
.358 Norma	1961 to date	250	2790	4322
.375 H&H	? to date	300	2550	4330
.375 Weatherby	1946 to date	270	2940	5181
.378 Weatherby	1954 to date	270	3180	6051
.40 BSA	1921-1924	250	2850	4504
.458 Winchester	1956 to date	510	2130	5140
.460 Weatherby	1959 to date	500	2700	8095



Left to right: The 7x61 Sharpe & Hart, .308 Norma, and .300 H&H. Note variety of shoulders.



Comparing the old and new. Left to right: Modern .338 Winchester, 35 year old .33 BSA, and the .300 H&H.

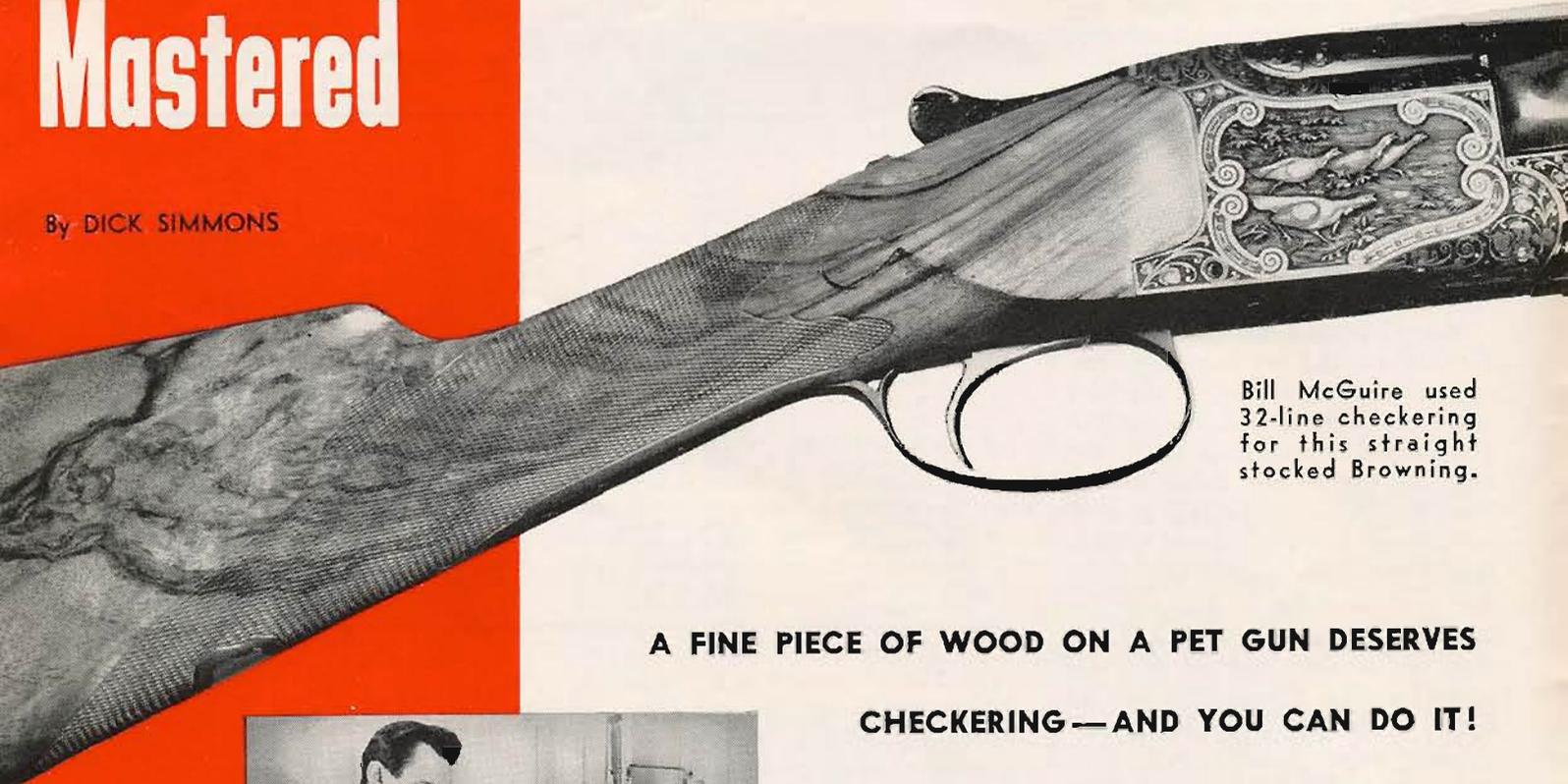
# Good Checkering Can Be Mastered

By DICK SIMMONS

**T**HANKS TO THE creative ability of Joe Bartolat of Tacoma, Washington, many amateur and professional stockmakers have been able to do a much better job when it came to dressing up a stock with good checkering.

A machinist by profession, Joe's hand-type checkering tools and his electric tool—the only one of this type manufactured—are well known to the shooting fraternity under the trade name of "Dem-Bart."

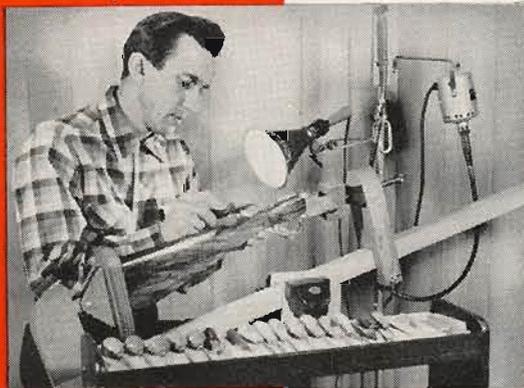
Employed as a machinist in the government's arsenals during the war, Joe designed and perfected a number of inventions which increased production in the small arms field. Most notable among these was a micro-head for chambering reamers which controlled the depth the reamer would run into the barrels of Springfields and Garands. This micro-head worked so well that it saved many rifle bolts; with this device, each rifle could be fitted individually to its own bolt. His sear-block, which permitted hammers, sears, and triggers of .45 Autos to be fitted before installation, saved not only hours but months of time for arsenal machinists. A piston-nut wrench and tap for use on army carbines, belt-loading machines for .22 caliber machine guns, obstruction drill for plugged bores, various machine gun gauges, and numerous other inventions comprised more than one man's share of time and money-saving aids to the country's war effort.



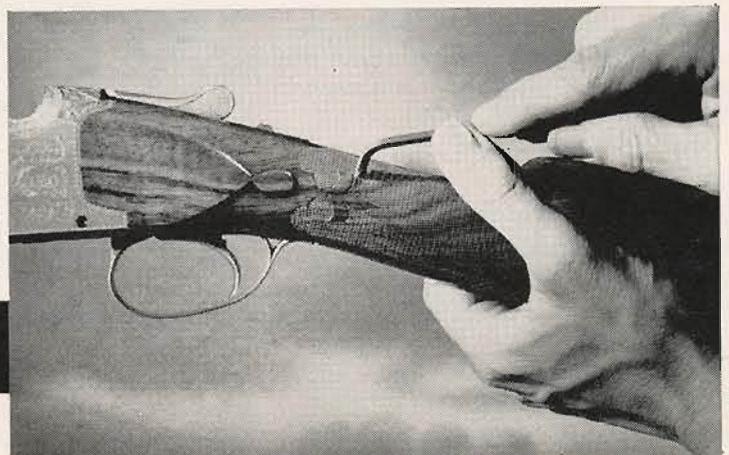
Bill McGuire used 32-line checkering for this straight stocked Browning.

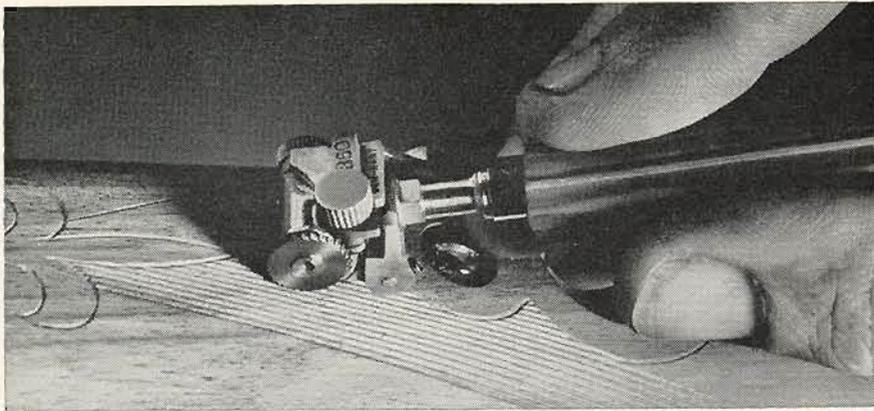
**A FINE PIECE OF WOOD ON A PET GUN DESERVES**

**CHECKERING—AND YOU CAN DO IT!**



Above, McGuire cleans out around fancy fleur-de-lis pattern with Dem-Bart tool, shown close up at right.





That the Dem-Bart electric tool can work in tight patterns is shown in the fore-end, right, checkered entirely without the use of hand tools.

Joe developed the tools for making the cutter blades used in his hand-type checkering tools for the simple reason that he could find no cutters on the market that satisfied him. Those that were available were either too coarse, too dull, or the pitch of the teeth was not right. Most tools were integral with the shank; and when they wore out, you had to throw away the entire tool rather than replace only the cutter blade.

Joe began making his hand checkering tools 19 years ago, and today they are sold throughout the 50 states, and wherever in the world gunsmiths—professional and amateur—want the best in design and quality. The cutting blades, selling for under a dollar, are made from rings of the finest tool steel. The perfectly aligned, brightly finished, teeth are hard enough to cut a file. These tools were the first to offer easy blade replacement, featuring cutting teeth on one side and a smooth guide on the other. While the cutting teeth are of Joe's own special design, the wooden handle is typical of the file handles found on fine professional tools. This, too is unique; the handles are made of un-oiled wood for good grip, and though they could have been made of plastic for about one fourth the cost, Joe feels that nothing equals or surpasses a wooden handle.

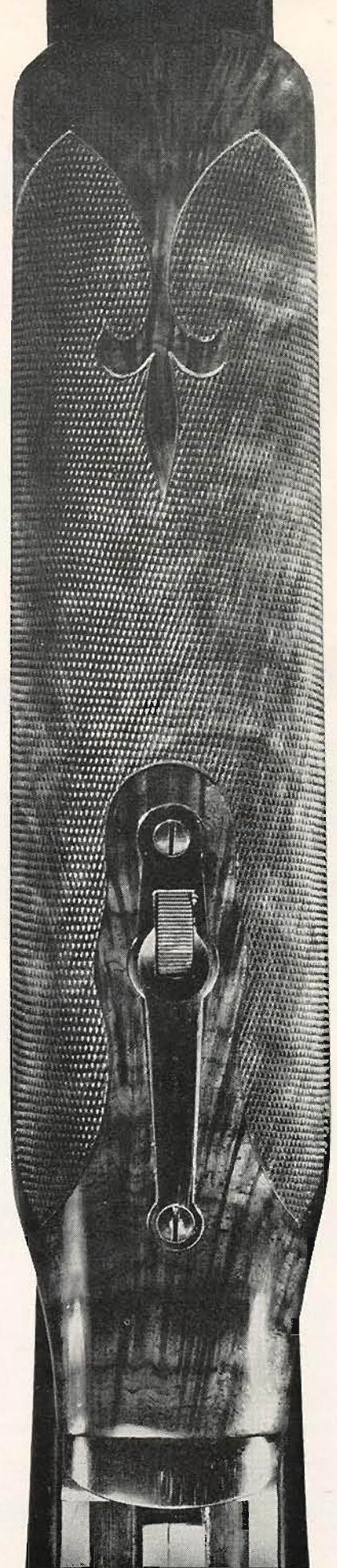
While the hand checkering tool has been Joe's bread-and-butter item as far as profits go, it would seem ironic that he would invent an electric tool that would do a faster job, and could actually cost him money every time one is sold. Anyone purchasing the electric tool will never go back to the slow hand-checkerer again, except for borders or clean-up work.

This unique checkering tool was first made up in 1947, and has been constantly improved through the years. A true machinist, Bartolat works continually toward perfection in both the design and materials.

To make his cutting wheels, Bartolat purchases the blank disks, then cuts in the teeth on a 90° angle from each side to a perfect center point. The diamond wheels used in this cutting operation cost from \$65 to \$200 each, and Joe has over \$1000 worth of these for cutting the various size teeth. Each cutter has from 25 to 35 teeth, and it takes from two to three hours to complete each tiny wheel. Dozens of other parts for the electric tool are sent to Joe, from manufacturers in the U.S. and abroad, in the rough. They are then drilled, heat-treated, hardened, and fitted by Bartolat.

The tedious task of checkering a gun stock is made much easier with this well-made and ingeniously designed tool. The power is brought to the cutting head by a small flexible shaft, and because of its compactness, the tool can cut a circle as small as a dime, or a straight line as short as  $\frac{1}{16}$  of an inch. The complexity of producing a workable power operated checkering tool is shown by the fact that at least three other firms tried, and unsuccessfully so, to produce such a device.

In addition to the electric checkerers in use in the U.S., these tools have been sent to Canada, Africa, and many countries in Europe. Gunsmith Newman Nelson, of Olympia, Washington, states: "If the machine did only half as much as it actually does, such as outlining the (Continued on page 50)



# MY GRAND SLAM PLUS BONUS CATS

By ARVID F. BENSON



Members of the sheep hunt examine the two Desert rams. Left to right: Assistant guide Jim Tankerslee; Phil Williamson and author Arvid Benson; Arizona sheep authority, Bob Housholder.

<



**IT STARTED WITH ONE SHEEP AND ENDED  
WITH A GRAND SLAM, A LION, AND A RECORD JAGUAR**

I HAD NO VISIONS of getting a Grand Slam back in 1956, but I was fortunate enough to bag a white Dall sheep in Alaska. My first look at that big ram, and I was a goner. I knew that I wouldn't be satisfied with less than one each of the four species of North American mountain sheep: Dall, Rocky Mountain bighorn, Stone, and the very hard-to-get Desert ram.

I collected my Rocky Mountain bighorn in 1959, in Alberta, and in 1961, in the Cassiar's of northern British Columbia, scored on a beautiful Stone ram with 45 inch horns that will go about 30th in the Boone & Crockett record book. Three down, and that elusive Desert ram

to go! Would this one be my downfall?

The only thing tougher than hunting the Desert ram is getting the permit to hunt them. Arizona, the only state where a non-resident can apply for a permit, issues too few of these—out of 80 permits in 1961, only 8 were to non-residents. The permits are drawn by lot, and the return of my 1959 and 1960 applications with the notation "Your application was not drawn," made me doubt that I would ever get a crack at filling my Grand Slam.

But 1961 was my lucky year. Instead of the usual "not drawn" notice, I received my permit for the 10 day season starting December 7th. I wasted no time getting started



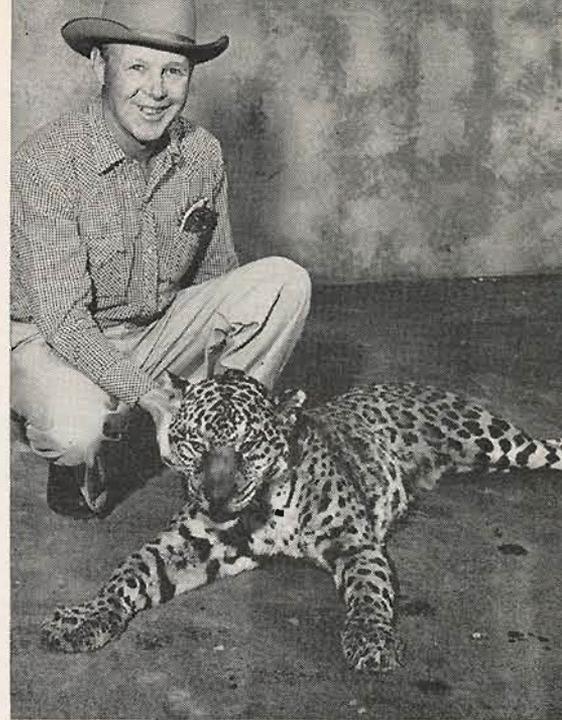
The Desert ram that filled the author's Grand Slam, bagged on the third day of hunt in the Black Mountains of Arizona.

on the many preliminary details, including the arrangements with my outfitter, Bob Housholder. While making these arrangements, Bob suggested that I come to Arizona early and get in a bit of lion hunting. That sounded good to me, so I asked for more details. Bob wrote back that he could arrange a 10 day hunt with C. J. Prock of Phoenix, whose guarantee was "no lion, no pay." With a deal like that I had nothing to lose, and gave him the go ahead signal.

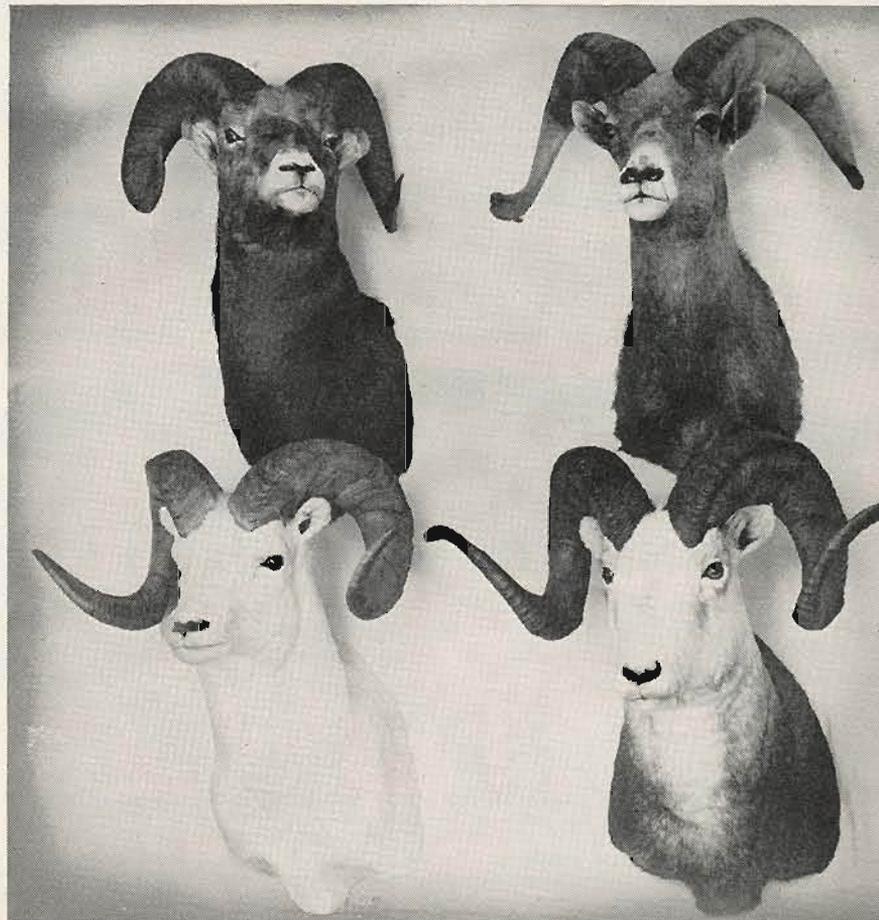
I arrived in Phoenix in the late afternoon of November 31, and called Mr. Prock, saying that I was ready. "I'll pick you up at 3 o'clock tomorrow morning." I was eager to go when he drove in, and after I loaded my bedding, guns, and other assorted trail gear into his pickup truck, we took off. I had no doubt that I would get my lion, but I never thought that we would find one the way we did.

After seeing only one track in four days of horseback hunting high up in the rim country, Prock said, "They're not up here, so tomorrow we'll take to the pickup and head for lower country."

Long before daylight, we were headed out on a four lane highway. As we rounded a curve, our headlight beams picked up a small tan hound (Continued on page 54)



The author's record female jaguar provided a bonus to the hunt for the last of his Grand Slam sheep.



Author's Grand Slam rams. Top, Rocky Mountain Bighorn and Desert Bighorn; bottom, White Dall and a record book Stone.

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Cal. 7.65 MM

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Cal. .30-06

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Cal. .30-06

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**BRAND NEW**  
Cal. 9 MM



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Cal. 32 ACP



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Cal. .32 ACP



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Cal. .22 L.R.



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Cal. .32 ACP



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**UNIQUE .32 AUTOMATIC!**

Cal. .32 ACP



**ONLY \$19.95!**

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 little pistol was made to exacting standards for use by the Germans and for commercial consumption. A lever type safety is 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!

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

Cal. .32 ACP



**ONLY \$22.95!**

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Another fantastic Swiss import manufactured where the watchword is ALWAYS precision. Absolutely superb craftmanship and ALL with ALL matching numbers. Commercial finish—"bead" type front sight. Imagine, NRA Very Good condition and only \$16.95. Some excellent only \$3.00 more. New 1940 production 7.5 Swiss Revolver ammunition only \$3.95 per full 40 rounds.

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# Pull!

BY DICK MILLER

Attention all shooters! Mark Saturday, March 14 on your calendar. "Skeet Shooting Review" reports that NBC has made a definite commitment to video tape the 8th Annual Inter-American Skeet Championships, from Club Metropolitan de Tiro, San Juan, Puerto Rico, March 4-8, and to present the shoot on a 90 minute network program, Saturday, March 14.

All shooters should be interested in this network coverage of a clay target shooting event, and let the sponsors know of their interest.

OLD SHOOTERS never fade away, they just keep on breaking targets and winning!

C. R. "Senator" Crawford, who won the Grand American Handicap in 1957 with a 98 from 22 yards, and who is certainly no juvenile, recently topped a classy handicap field of 109 gunners at the Maywood, Illinois club, with a 97 from 23 yards. His combined score of 196 in the combination 16-yard and handicap event was tops in a 159 entry list, and the 16-yard score was also good for Class B trophy.

We hear more and more about distaff target dusters these days. Now the ladies have their own trapshooting league in Pennsylvania. Huntington Valley Country Club won the opening shoot in the Women's League at Valley Forge, shattering 226 of 250 targets. Torresdale-Frankford CC was second with 222, with Philadelphia CC third at 209. Fourth place went to Aronimink Gun Club with an even two hundred broken targets.

Another fine feminine Keystone scattergunner, Mrs. Mary Christopher, topped the men in a doubles match at Roxborough Gun Club, and tied four males in a 75 bird 16-yard event, with one target off a perfect score.

Cliff Conover, of Highstown, New Jersey, won the Duck Shooting Championship of America at Ringoes, New Jersey, for the second straight year. His score of 18 includes six pairs of doubles.

Denny Sorantino, one of the shooting Sorantino brothers, and J. W. Kolouch were the big guns in the 58th Annual Westy Hogan Championships, one of the East's top shooting events and a fixture in the nation at Atlantic City, New Jersey.

Three hundred and three shooters squared away in the 1963 running of the Westy

Hogans. Since three men on the entry list of 303 were his brothers, Denny Sorantino had only to top 299 outsiders to grab off the singles, doubles, high-over-all, and mixed event. Kolouch, from the City of Brotherly Love, blasted a 97 from 23 yards, and showed only a smattering of brotherly love by outlasting John Sonnon of Reading 49-48 in a shoot-off.

The shoot management came up with a fine program innovation, in awarding high-over-all trophies in each class. Denny Sorantino topped the field with 381x400.

Skeet shooter Ed Willmering, of St. Louis in the Show-Me State believes in the Show-Me slogan. Ed believed that the combined score of 398 out of 400 skeet targets in four gauges (410, 28, 20, and 12) could be tied, even if he had to show that it could be done by doing it twice. Willmering fired the combined 398 to tie Bob Shuley and Mike Martin in the record books, at a Labor Day week-end shoot.

The first performance could not be recognized as official, because the program was divided into two separate events. Just to show that the first score was no accident, he fired another near-perfect four-gun score of 398 at Jennings Gun Club, and this time put the score in the official archives.

This reporter would not be surprised to see Willmering top the mark one of these fine days, because of his persistence, and because he is only in his third year of registered competition.

Another world clay target record was tied last Fall, when Ft. Benning's Bill Morris broke 297 of 300 International style targets, in the third annual U. S. Military International Championships, hosted by Fort Benning. The 297 goal was set in 1961 by Lt. Jimmy Clark, who is no stranger to clay target shattering.

Joe Sullivan, from Springfield, Mass., whose pay-check comes from the same till that pays this columnist's bills, had a busy day in the George Docherty Sr. Memorial and Eastern States Open at Ludlow (Mass.) Fish & Game Club. Joe won the 20, 28, and all-around contests, but had to survive shoot-offs in all but the twenty gauge program. Ray Dukat of Hamden topped the 12 gauge entry, after a shoot-off, and James Downing from South Hadley Falls topped the .410 race. Joyce Rising was high lady at 97, and a 93 won Eugene Crowley Jr. the junior trophy.

In a column that mentions two world shooting records being equalled, it is appropriate to draw attention to an item from fifty years ago in "Trap & Field."

Fifty years ago this month, a DuPont Powder Co. ad told the world that a "three dram, 1 1/8 ounce trap cartridge loaded with DuPont smokeless powder had a speed of 878 feet per second."

Today, the same load zooms toward the target at a speed from 1150 to 1200 feet per second. Want to bet that more shooting records will be broken soon?

Still on the subject of new shooting records, and with more on the feminine invasion of the firing line, highly photogenic and attractive Mrs. Jack (Evelyn) Jones from Dallas, Texas, fired a 97x100 in the .410 event of the big Pan American Open, at Dallas, to tie the record set by Mrs. Ann Martin Hecker in 1950 at the same shoot.

Not only did Mrs. Jones win the .410 race over 125 hopefuls, she topped current high-over-all world champion Marvin Hambrick in a shoot-off. Six more world records were tied in the 1963 Pan-American, held at the plush new Dallas Gun Club, but Mrs. Jones was the biggest noise, even with her little gun.

Skeet shooters are a durable and determined lot. Ralph Hughes of Paducah, Kentucky had broken 66 straight targets in the Kentucky Lake Open, when he had to make an emergency trip to a hospital for nose-bleed. Back he came, nose packed for action, broke the remaining 34 targets and took the 12 gauge trophy.

Cliff Leutholt was a double winner in the annual Quaker City Gun Club championships at Holmesburg (Pennsylvania). The Allentown, New Jersey, marksman carried the 16-yard trophy over the state line after the toss of a coin when he and Howard Dilts, also from New Jersey, were still tied after 125 targets. His momentum carried over into the doubles race, and another trophy for 47x50.

Mrs. Rhoda Wolf was high lady, and Bob McArthur from Colmar annexed the handicap award, after a shoot-off with C. H. Zeigler. Zeigler was high-over-all in the combined 16-yard and handicap program. After the annual Quaker City set-to, the club's annual dinner was held. Dr. Lewis R. Wolf will prexy the club for the new year, and Albert Brooks is chairman of the board! Bob Evans will keep the books, and Charles Yoder watchdogs the treasury for Torresdale-Frankford.

Sonny Landers and Mildred Neece were the top gunners in regular trapshooting events at the West Chester, Pennsylvania, Gun Club. Landers garnered his trophy for a perfect hundred, and a fine score of 97 put the ladies trophy in the Neece household along with the pots and pans.

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# A Perrin "Pocket" Revolver

By GRAHAM BURNSIDE



This rare Perrin features spurred trigger, not found on larger 12 mm revolvers.



## THE 12 MM PERRIN REVOLVERS USED IN THE CIVIL WAR ARE RARE, BUT HERE IS A 9 MM POCKET MODEL

**I**N THE MAY, 1963 issue of GUNS I reported about a consecutively numbered pair of Perrin 12 mm revolvers. The article caused a little stir among collectors and several other Perrin specimens were reported. Among them were a couple of variant forms that were previously unknown to me.

The most interesting variation is the Pocket Model Perrin shown here. It is my opinion that this gun was manufactured during a later era than were the Perrins of Civil War use. Guesstimation places the manufacturing date no earlier than the 1870's.

At a glance the characteristic style of the grip and the trigger guard smack of the Perrin design. The situation is quickly settled when one notices the marking "L. Perrin BRE." on the top of the barrel. The "BRE." mark is an abbreviation for the French 'Brevete' or 'patent.'

The 9 mm Perrin cartridge is usually termed the 9 mm French thick-rim revolver cartridge by American collectors. These rounds, like their 12 mm cousins, display somewhat crude manufacture and more than normal specification variation. Of the half dozen specimens in the collection, none employs the inside primed case. This would indicate manufacture after the Civil War.

This revolver is in pristine original condition. The metal was never blued or plated, but was finished in the bright. This would agree with the way the French constabulary revolver of 1873 was finished. This revolver, from the Colley Jackson collection, is a rarity in the field of European cartridge revolvers and though it has no association with American military use, would command a good price from an interested collector.





Margaret's proficient rifle shooting has earned her a coveted letterman's sweater.



## *This Co-Ed Scores For Kansas State University*

**MARGARET THOMPSON EARNED HER  
ATHLETIC LETTER ON THE FIRING LINE**



Margaret Thompson and team manager Captain Sherlund Prawl examine a few of the trophies won by Kansas State University's rifle team.

**A** TWENTY YEAR OLD CO-ED at Kansas State University is on her way to become one of the nation's top small-bore shooters. There is no denying Margaret Thompson's credentials in collegiate shooting circles where, this past spring, she was top co-ed in the National Rifle Association's Intercollegiate Postal Matches. In addition to a perfect 400 in the prone position, Margaret fired a 297 to pace the K-State varsity squad to the team title, and fired a 298 for the women's national title.

She was twice Kansas Junior Champion, and is currently Kansas Senior Champion, having successfully defended her title, this past April, in Wichita. At this match her male competition included members of the All-Army rifle team who used the state championships to warm up for the tough competition at the forthcoming Pan American games.

As a sophomore, in 1962, Margaret's overriding ambition was to be able to make the NRA intercollegiate "All-American" team. She didn't make it in 1962, but her "biggest thrill" was achieved in the spring of 1963, when she shared the limelight with another fine feminine shooter, Carole S. Rollison of the University of Alaska.

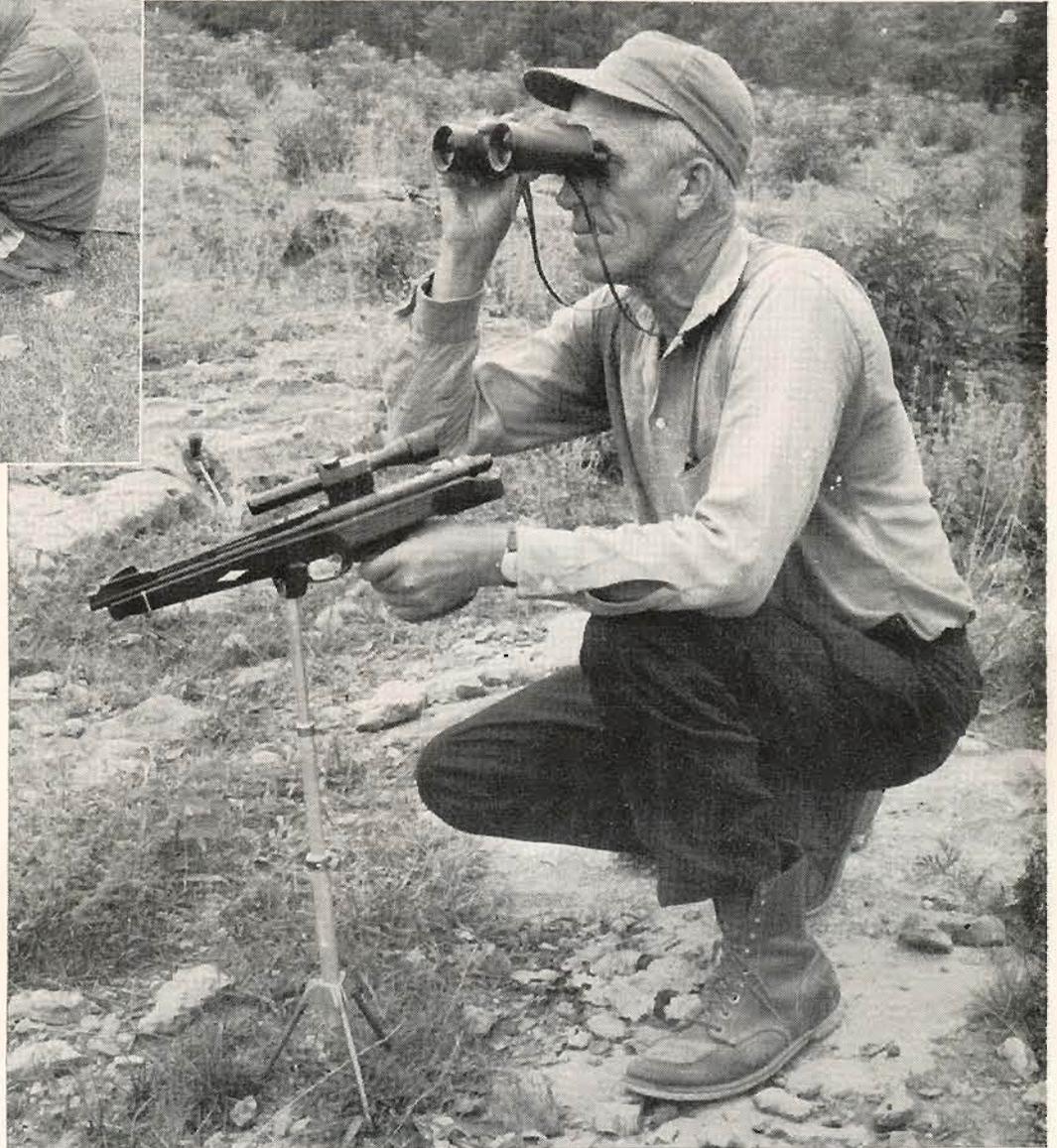
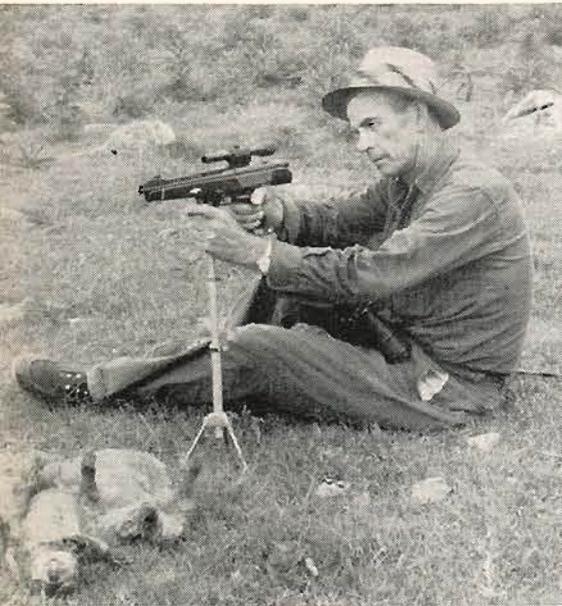
It may seem a bit strange that a shooter who has paced the Kansas State rifle team for the past two years should have sat on the sidelines as a freshman, but that is just what happened. "When I asked if I could try out for the team," Margaret recalls, "the coach said it would be just too much trouble to have a girl traveling with the team. But he did say that I could use the range to practice once in a while."

Margaret swallowed her disappointment and, armed with her Model 52-B Winchester, a keen eye, and a desire to be the best, she let her practice scores speak for themselves. By the time her sophomore year rolled around, she was "invited" to try out for the team, and has been K-State's top scorer ever since.

Margaret's interest in shooting comes naturally enough. Her dad, Robert D. Thompson, is an enthusiastic marksman, and he let his love of shooting rub off on his girls. Margaret's older sister was a Kansas junior champion several years before. Thompson, a good shooter in his own right, was Kansas high power champion in 1956, and one of the prime movers in organizing the junior division of the Capitol (Continued on page 42)

# VARMINTS and the XP-100

SCOPED, THE REMINGTON GUN WILL DO  
THE TRICK WITHIN ITS EFFECTIVE RANGES



Chuck hunters Freeman Brown, above, and the author were delighted with the performance of the XP-100 on varmint. Tripod rest increased accuracy at long range.

By CARLOS VINSON

LET'S FACE IT, the Remington XP-100 pistol is an odd-ball and, perhaps because I'm a gun writer, I have a weakness for odd-ball items. So naturally, when the Remington people announced the production of this varmint handgun, I got all keyed up. I didn't settle down until the big pistol arrived, and I had mounted a Bushnell 1.3 X Phantom scope on it.

Whatever the appearance of this pistol conveys to your mind, once you pick it up and seat it into your hand, there is little doubt in your mind that this was designed for just one thing—accurate shooting. It feels comfortable from the moment you pick it up. The grip is full; the

weight not objectionable; and the trigger pull on my gun left little to be desired.

While I am more inclined to test any new varmint gun on hillside targets or, (if available), on live game, rather than paper targets, I couldn't resist the temptation to see just how well this new pistol would behave as a paper puncher.

Actually, the .221 "Fireball" cartridge for the XP-100 is a necked-down and shortened .222 Remington. During the initial tests I used my Remington .222 Magnum varmint rifle as basis for comparison.

While sighting-in, I found out (*Continued on page 55*)

HERE'S A LOADING BENCH THAT FOLDS INTO A PRESENTABLE PIECE OF FURNITURE EVEN A WIFE MIGHT LIKE

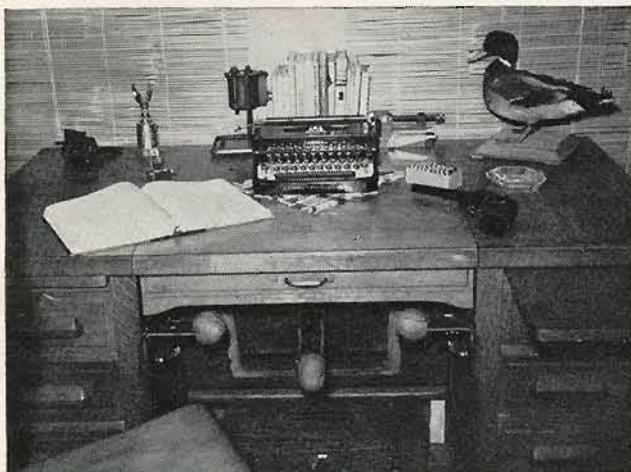
# Dual Purpose Reloading Bench

A FOLDING-top typewriter desk can be converted into a reloading bench with very little effort. When not used for reloading, it serves as a conventional desk and, with its lock-equipped drawers, it makes an ideal place to store reloading components, dies, and ammunition.

The typewriter shelf and its brackets are not adequate to support the work load of the average press. By adding sturdy steel brackets, so that the typewriter shelf rests on them in the lowered position, and bolting a  $\frac{3}{8}$ " steel plate to the shelf for mounting the press, the downward force of the reloading operation is distributed through the desk and to the floor.

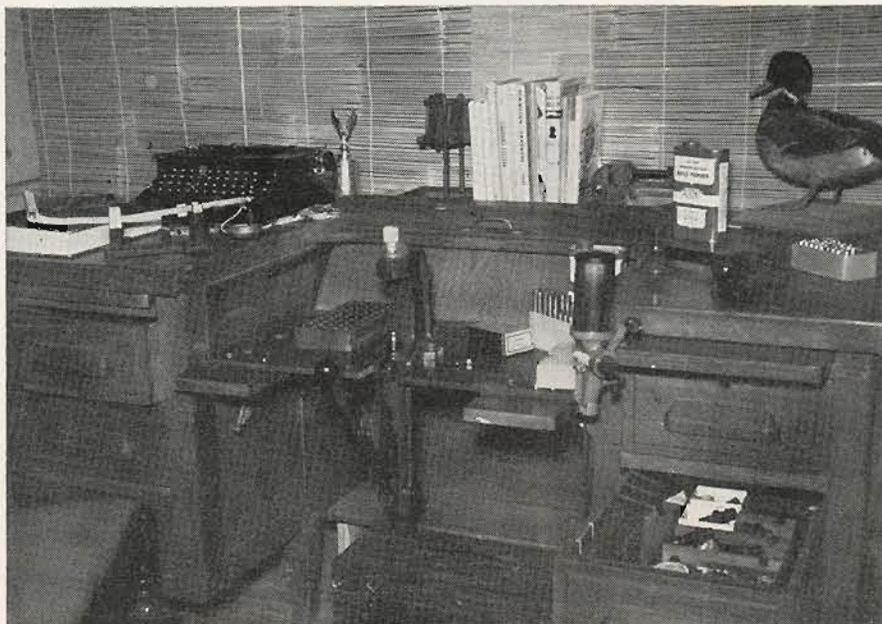
Drill a  $\frac{1}{4}$ " hole upward through each bracket, the typewriter shelf, and the steel plate. When the desk is converted for reloading, two  $\frac{1}{4}$ " bolts will quickly secure the reloading surface to the brackets. This places the upward force of the reloading operation on the entire weight of the desk, which is substantial when the drawers are filled with bullets, dies, and other paraphenalia.

The exposed ends of the brackets and the bottom of the press do not interfere with normal sitting at the desk, but they may be covered with three tennis balls for knee protection. The desk pictured was bought for \$10.00; brackets and plate cost even less; and for a minimal investment you can have a sturdy loading bench-desk combination, even in a small apartment. 



With top folded forward, desk can still serve for writing, retains furniture appearance. Slit tennis balls are shown in place on brackets and press.

Fold the top back, and presto there is the complete loading set-up. Leaf holds the powder measure safely, conveniently. Plenty of storage space helps.



By ALLEN WILSON

## GUN RACK

(Continued from page 15)

Model goes for \$5.00. The instructions that come with the call are well written and explain the method of calling, but listening to the birds and then trying to imitate their calling is, of course, the best way to learn calling. If you can't find a place where the birds call, you can get a calling record for \$2.00 from Har-Ken, or you can go to the nearest game preserve and listen to the birds in the holding pen. Using a pheasant call might appear strange to you, but if you don't have a dog, walking them up can be a very tedious chore. Calling them to the gun, or locating the birds with the help of the call, will make hunting more fun and will help you to fill your bag. Send money order or check to Har-Ken Co., R #3, Box 441AG, Oconomowoc, Wis., 53066.

### Silicone Spray

Hunting is fun, providing of course you manage to stay fairly dry. The silicones have been a real boon to us, and now a new silicone spray makes waterproofing stuff like boots or jackets a real pleasure. "Sili" Silicone aerosol spray sells for only \$2.00, and can be obtained directly from Safe Way Products Co., Inc., Box 788G, Hoboken, N.J.

We used this spray on a pair of old and somewhat leaky shoe paks and the stuff works. Best news of all, the silicone does not clog the pores of the material you spray, and thus it retains its "breathing" qualities. It worked well for us, so why not try it yourself?

### Browning Scope, Gun Cases

We reported about the Browning 3X-9X Variable scope some time ago, and have been giving the new 2X-7X Variable a good going over for several weeks. Perhaps the toughest test for a scope is the hot water immersion and the drop test. The 2X-7X Variable Browning scope took all the punishment we could hand it, and remounting it on

our Remington 7 mm Magnum, the scope held the same zero it had before the tests.

The over-all size of the new Variable is identical to the size of most 4X scopes, and weight is a mere 11½ ounces. Internal adjustment graduations are ½ minute, and the standard reticle is a crosshair. Post, dots, and custom reticles are available. Optics are excellent, and the point of impact of the bullet does not change when the magnification is changed in the course of shooting a string. The new scope, now at your dealer, retails for \$92.50 and is, in our opinion, a fine buy for anyone wanting a variable power scope.

In the expanding Browning line, something new has been added—fine gun cases. The exterior of the new gun cases is a heavy-duty vinyl that is rugged and waterproof. The usual carrying handles have been replaced with luggage-type handles, and the brass zipper has a long pulling tab, something that has been needed for a long, long time. The inner lining of the cases are thick layers of Tufflex that has been treated to repel moisture, and the best news is the 3" wide elastic band on the inside of the case. Once the gun is slipped into the case, you simply see to it that the butt of the gun is under the elastic band, and even turning the case on its side and upside down won't let the gun slip out. Add to this the deluxe features of good, solid stitching, hard rubber muzzle protector, and leather ID card holder, and you have a case that is worth twice the price Browning gets for it. Browning gun cases are available for scoped rifles in standard lengths; for rifles and shotguns, case length goes from 45" to 53". We liked ours so well that we are planning on getting several of them for our guns and will also give some of them as gifts to shooting buddies.

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(Continued from page 38)

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City Rifle and Pistol Club, at Topeka—primarily so that his girls would have a place to practice.

The secret of success, Margaret believes, is to learn to relax, and to fire the prone position as quickly as possible, leaving more time for the more difficult standing position. Before going on the line, she will sit down and calm herself by breathing slowly. Once on the firing line, she gets off her prone shots in the first five or six minutes, and uses the remaining time for kneeling and offhand.

"Because of her attention to detail and fundamentals, she uses up her time right down to the last second," notes Capt. Sherlund Prawl, K-State's team manager. "And she never sits down. She stands the entire time." Collegiate competition is based on prone, kneeling, and standing, and there is nothing unusual about pumping off ten bulls-eyes, as Margaret does routinely. In fact, she only lost a couple of points all year in the prone position, and in the NRA intercollegiate postal competition thought nothing of 40 bulls in a row.

But as far as Captain Prawl is concerned, it is in kneeling that Margaret gets her edge. "Many a male feels pretty good if he gets a 97 kneeling," comments Prawl, "but Margaret more often than not this past spring came up with a perfect 100. This meant that if she could score 91 or 92 standing, her male competitor had to fire a 94 or 95 offhand to beat her. And that's not easy to do."

Because Margaret is so close to perfection in prone and kneeling, every additional point comes awfully hard. She doesn't think females have any advantages over the males in the sport, and thinks she is at considerable disadvantage in the offhand position because she lacks the strength of the boys. She devotes most of her practice time to the offhand position. "This is the really hard position, and I have to be careful," she says. "I can hurry other positions and not lose as many points."

How does Margaret like competition in a predominantly male sport? It's fine with her. She's naturally rather shy and extremely modest, but has a tom-boyish background. So around the rifle range she's just "one of the boys," never bragging about her scores—letting them speak for her.

Although rifle shooting is about as individual a sport as one could find, K-State officials have done as much as possible to make it a team sport. Says Captain Prawl: "On a lot of teams you'll never see one individual speak to another. When our kids get on the line, they really take care of each other. They know it is team effort that wins trophies."

Margaret almost never needs help on the line, but she contributed much to the success

of this past year's team by helping other shooters. "We all shoot together all the time," Margaret says, "so we know if someone is having trouble. If someone has a problem, we try to help him."

As a junior, in the fall of 1962, she started out rather poorly and it dawned on her that if she did not want to fritter away her chance to be "All American," she would really have to bear down. Her practice schedule, which had called for around 12 hours a week, began to increase, and by the time the season was going strong she was spending an average of 8 hours a week on the range.

The K-State men, even those with the ability to challenge Margaret, just haven't been able to dedicate themselves to the sport in this manner. One of the reasons Margaret can do it lies in the fact that she is an exceptional student. One of the few girls in the tough industrial chemistry curriculum, Margaret maintains a better than B average and is on the honor roll most of the time. However, she is the first to admit that spending as much time shooting as she does hurts her grades.

Shooters are just as superstitious as other athletes, and Margaret is no exception. She has a favorite "point" that she always uses in practice, and K-State officials see to it that the squad's positions include her favorite post. Margaret's favorite shooting jacket, which has seen lots of use in recent years, began coming apart at the seams this past year. Although the team coaches urged her to break in a new jacket, her scores became better and better as her jacket became progressively more disreputable.

This summer, as last summer, Margaret worked in Kansas State University chemistry laboratories as a National Science Foundation undergraduate research participant. Only students who have shown unusual potential are invited to participate. This summer she worked with Dr. Clifton E. Meloan, assistant professor of chemistry, helping him scan compounds which might be useful in an anti-cancer study.

When the indoor season closes Margaret puts her .22 aside and competes with the heavier M-1 rifle. She was twice a member of the Kansas team competing in the national matches at Camp Perry, Ohio. Although she is severely limited in her practice outdoors, Margaret still managed to finish only seven points behind the winner at the 1962 national matches.

Her ambition, now that she is an "All American," is to repeat the feat in her senior year. She sees no reason why her scores this coming year shouldn't be just as good as they have been, but she says competition is constantly getting keener. "When I entered as a freshman, a person could qualify for 'All American' shooting four or five points less than were required to qualify this year."

You can bet that the 1964 season will see Margaret Thompson on the firing line, pacing the Kansas State team to new victories and, at the same time, adding to her growing list of individual victories.

## ARTIE SHAW: BANDSTAND TO BENCHREST

(Continued from page 23)

around for a man who could build a custom rifle, was a shotgun expert, could work on handguns, and could also do custom stock work. The longer the search went on, the more certain it became that such a man would be almost impossible to find. But they were lucky, and the choice of possible candidates was slowly narrowed to one man—John Dewey. John used to operate his own shop in Roxbury, Connecticut. He is a first-class craftsman and experimenter, having specialized in building precision rifles, Buntline barrels for Colt's and custom barrels for Lugers. Artie and Mason sold John on the idea of joining them, and the combined operation is now known as Shooters Service & Dewey, Inc.

Artie and Mason gave me the grand tour, and by now further improvements, especially on the ranges, have been completed. On the



Artie Shaw helps a shooter with a special problem on the SS&D range.

rifle range, benches are spaced so that they can be used for five position shooting, and range facilities for 100, 200, 330, and 400 yards are in full operation. A range buggy is used to facilitate setting up targets, bringing the fired ones back to the shooters. Benches are covered and sound proofed, and firing control is achieved through a PA system from the range officer's tower.

This shooters' Shangri-La quickly became a center of attraction for police officers. A special police pistol shooting area was set aside and the range is used by departments and individual officers. A complete pistol course is now being planned and construction has begun. A '39 Dodge is used to show the practical application of ballistics and bullet performance to officers, and there is talk that the range will become the center of police shooting activities for the area. Additional pistol course plans are in the hopper, but neither Artie nor Mason wanted to be quoted on it. "When we are ready to break the news, it will be one of the newest things in shooting the police course and will be as close as possible to actual shooting conditions for police officers," Mason explained.

Now operational are two trap fields, and a skeet layout should be in full operation

when the present snow has melted and construction can be resumed. In full swing, and already too small, is the regulation pistol range, and although it was considered too big while in the planning stages, there is a long line of shooters waiting during the weekends.

Artie, Mason, and Jim are now working on a brand-new idea that, when completed, will offer the rifle-toting hunter something that has never been offered before. "The shot-gunner has his quail walk, so why should the rifle hunter not have a place to practice snap shooting, especially after he just got through climbing the side of a hill? How often has the average hunter missed a shot at game because he was out of breath from climbing or was not fast enough in getting his rifle into action?" Mason asked. The idea sounds reasonable, and by the time I left them, I had put my name on the registration list—I just hope that the "rifle walk" will be ready before the next hunting season.

All of these facilities are brand-new, as is the store, the gunsmithing and handloading set-up, and the ballistics department; S.S.&D. are franchised dealers for all major companies dealing in firearms and shooting accessories. The basement of the shop houses the gunsmithing department where John Dewey and Ed Shilen, of the Shilen rifle action fame, hold forth. Ed joined the growing organization in July of last year, and already orders for custom rifles have exceeded everybody's fondest hopes. Match barrels, of either stainless steel or chrome-M alloys, are bored and rifled in the shop, and Mason claims that the tolerances maintained by Ed and John are the closest ones possible. Each barrel undergoes four inspections before it is released to the customer, and internal dimensions are checked with air gauges and barrels are inspected with a bore scope. Swaging and storage of finished ammo and bullets is accomplished in a separate room behind the shop, and custom loading is still another, and separate set-up.

This Shangri-La also offers services not usually available in gunshops or on ranges. Mason and Artie have initiated a complete ballistics service. Here a shooter can send his rifle to them, and they will work up complete loads for hunting, plinking, or target shooting, then send the rifle and ammo back. All loads are checked for velocities and pressures, and accuracy of the loads is guaranteed. One of their customers wanted to shoot his Winchester 1866, but could find neither ammo nor brass. S.S.&D. not only made up brass for him, but also worked up safe plinking and hunting loads.

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## ...ABOUT THOSE BELTED MAGNUMS

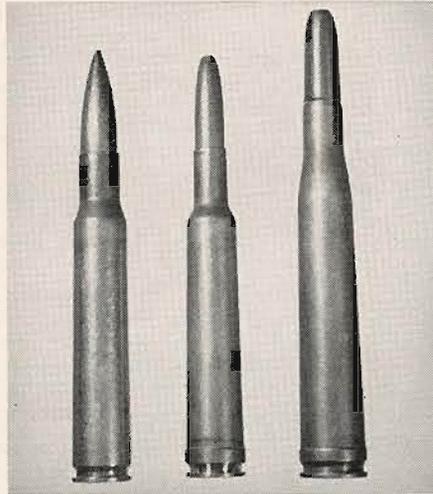
(Continued from page 29)

By sheer accident, Mason learned that there is a considerable influx of foreign hunters to the United States. These hunters can now ship their guns to Clinton Corners, where they are degreased, the scope checked, the gun sighted in, and ammo is tailor-made for the game the man will be hunting. The package is then shipped to the hunter's jumping-off point, so that the visiting sportsman has no worries about transporting firearms.

"We will build a rifle for a man, mount a scope, work up loads, and sight the gun in, then send it out to the customer. Knock on wood, we never had a complaint yet," Mason said. The latest wrinkle on the firing line is on-the-spot shooting help. When I visited Artie and Mason, a young man was having trouble with his shooting. Artie took over the coaching, showed the customer how to adjust his scope and sight-in his rifle, and by the time I left in the late afternoon, a new accuracy fan had been added to the ranks. A casual plinker became a shooter!

When I commented on this facet of the range operation, Artie summed up the whole idea very concisely: "I remember only too well some of the problems I encountered when I began serious shooting. There were a lot of people who helped me. Some of them are still my friends, others were casual strangers. All of them made me a better shooter, and I am grateful to them. I feel that I should pass on some of my knowledge and some of my experiences. Maybe this will help some other fellow, and then years from now, he can help some other guy." Artie Shaw was the king of the clarinet, and it seems that he may soon be called the king of the bench-rest clan. His knowledge of guns and ballistics is comprehensive, and he has the patience and perseverance to try the impossible—five shots into one hole. With the gunsmithing services he has available, the boys from S.S.&D. are willing to bet on Artie. Knowing what they can do in the shop and what Artie can do on the range, I am not taking any bets against Artie Shaw. 

(O'Neil, Keith, Hopkins), both very fine long range cartridges. Even the well known firm of Griffin & Howe turned out a .35 Magnum on the same basic case. Over the years, variations on this theme ran the gamut



A .240 Apex, flanked by a .30-06, left and a .300 H&H Magnum, right.

from .22 to .475 caliber. None achieved the status of factory production, but they served to stimulate interest in increased power and velocity.

Following World War II, Roy Weatherby gave the big belted cases a real shot in the arm with his line of super high velocity wildcats, the Weatherby Magnums. These cartridges were quite controversial, but they killed a lot of game all over the world. Demand eventually reached the point where Weatherby began operating his own plant, loading new cases manufactured to his specifications by Norma Projectilfabrik, of Swe-

den, in quantities large enough so that we can consider them as standard factory calibers.

Current Weatherby numbers on this basic case range from the .257 Magnum up through .270, 7mm, .308, and .340 Magnums.

A new addition to the belted case line is Roy Weatherby's .224 Weatherby Varmint-master. With a belt diameter of .425" and a case length of 1.915", it falls midway between the .222 Remington and the .220 Swift case in size, volume, and ballistics.

The wildcatting that followed Weatherby's success created a demand that reached the point where the big outfits decided that they had better provide new modern high-intensity cartridges based on the belted H&H cases. Much ballyhoo and numerous premature press releases attended this decision. In the meantime the late Philip B. Sharpe tossed his pet wildcat—the 7x61mm Sharpe & Hart—into the ring as a standard cartridge loaded by Norma. Loaded in a nominal 2 $\frac{3}{8}$ " case on the H&H head, performance was impressive, but it has not yet achieved the popularity of some of the Weatherby Magnums.

The first of the standard factory loaded new magnums to appear was the Winchester .458 African, a straight taper 2 $\frac{1}{2}$ " case on the H&H head, loaded with 500 grain solid and 510 grain soft point bullets. Both the cartridge and a special Model 70 rifle chambered for it were introduced in 1956. Not far behind the .458 came two more of the same family, a .338 and a .264 belted magnum, introduced in 1960. Both are nothing more than a .458 necked down to take the smaller diameter bullets. Early in 1963, Winchester introduced their .300 Winchester Magnum, loaded with 150 and 180 grain bullets. This is the .338 case necked down to .30 caliber, the All-American favorite.

While the Winchester boys were bringing their new numbers out, Norma went after a share of the shooter's dollar. In 1960 they brought out the .308 Norma Magnum, which follows the established pattern very closely. Same reliable H&H head, 2 $\frac{1}{2}$ " case, sharply bottlenecked with minimum body taper commensurate with good extraction. Another case of a cartridge without a gun, Norma produced the ammunition and offered it for sale before any standard model arms were sold for it. All details of chamber and cartridge design were made available to anyone who asked without charge. With the .308 Magnum going well, Norma followed, in

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1961, with the same case necked up to hold .35 caliber bullets, the .358 Norma Magnum.

Meantime, the Britishers were not idle. In the late 50's they announced the .244 Holland & Holland Magnum, essentially a 2¾" bottleneck case on the old head. Probably inspired by the successes of new 6mm cartridges in this country, it has yet to duplicate the popularity of the home grown .243 or .244.

Inspired (or threatened) by the success of the new short belted magnums, Remington came out, early in 1962, with the 7 mm Remington Magnum, a sharply bottlenecked 2½" case on the H&H head. It holds promise of excellent performance, particularly with the long 175 grain 7 mm bullet.

This latest addition to the series brings the total number of standard calibers (admitting Weatherby and Sharpe as standard) to about 20. Several of them have been dropped in the years since their introduction, but even so, this is an enviable record for any single basic case. They run the gamut from varmint cartridges to potent medicine for the great pachyderms, with just about any performance level in between.

Having proved successful in one form, this case has been copied to a degree in other head sizes. In Britain, the .400/375 Belted Rimless Nitro Express and the .240 Belted Rimless Nitro Express, loaded in a case with the typical belt but of a diameter approximately equal to that of the .30-06 case head. Between WWI and WWII, the 7 x 73 mm Vom Hofe appeared; it was based on a head almost identical to the H&H, only a few thousandths of an inch larger in diameter. Larger yet was the big .335 Halger with a belt diameter of .595" and a case length of just under three inches. It was developed, in 1930, by Harold Gerlich, whose tapered bore anti-tank guns achieved some fame in World War II with Rommel's Afrika Korps.

Roy Weatherby, deciding that he needed a bigger case yet, designed a new case approximately the same size and capacity as the venerable .416 Rigby, with a H&H type belt. Necked to hold .457" bullets, the .460 Weatherby produces more energy at the muzzle than any other standard sporting cartridge in existence. Necked further to take .375" bullets, he called it the .378 Weatherby. Both of these fireballs are now loaded in the Weatherby plant in brass manufactured by Norma.

This, then, is the present line of belted magnum cartridges. Of course, the wildcaters and experimenters are as hard at work as ever. The .460 has been reported altered to accept .475 and .50 caliber bullets and the .375 has already been necked down to .30 caliber. No doubt other devotees of the wildcatting art will give us many more interesting variations on the assorted belted cases as time rolls along.

We owe the gentlemen at Holland & Holland a big vote of thanks for first designing the big belted cases. Without those cases for experimentation, we might not have as many new and potent cartridges as we have today.



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# KNOW YOUR LAWMAKERS

## Senator Allen J. Ellender Louisiana



To my mind, the wording of the Second Amendment is quite clear and not open to the interpretation which seems to be so much in fashion nowadays concerning Constitutional questions. It must be admitted, however, that conditions in certain parts of our country, particularly in our great cities, have changed a great deal since the Second Amendment was adopted. It may well be that such registration as New York's Sullivan Act is needed and necessary for the preservation of law and order in New York City. This same condition, of course, does not prevail in my native State of Louisiana or in

most other sections of the country.

Hunting is one of the important industries of my state and I can well envision the difficulties which might be imposed if gun registration, with its attendant red tape, were to be adopted on a national scale.

## Senator J. Caleb Boggs Delaware

I am sorry that my schedule does not give me the opportunity to write many statements, although I wish you well in your magazine and its revived "Know Your Lawmakers" department.

## Congressman James T. Broyhill North Carolina

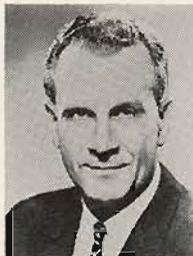
Even in organized society, the right of a man to be secure in his person and his property is no greater than his capacity and power to defend them against others. Though the laws of society are for the purpose of protecting citizens against violence, society's force is not always present when violence occurs. Just as in the criminal law, the privilege of self-defense remains paramount and inviolate, so must the right of the citizen to bear arms for his own protection be guaranteed as a necessary pre-requisite to the exercise of that privilege.



## Senator George D. Aiken Vermont

I wish I had the time to give you a statement for use in your publication. However, it is all I can do to keep up with the things that have to be done, and, therefore, will have to turn you down.

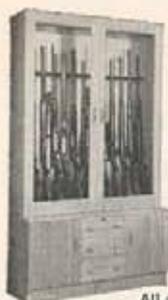
## Congressman Bruce Alger 5th District, Texas



The Second Amendment to the Constitution states the case far more clearly than I could. "The right of the people to keep and bear arms shall not be infringed." This means that our constitutional right to own and bear arms shall not be limited, regulated or interfered with. This is the meaning of the amendment clearly and without doubt, and any tortured reinterpretation of such a clear cut statement would be hard, if not impossible to justify.

It is important to remember that no country in which this important right was adhered to has ever been successfully subverted by the communists.

Readers Note: All Congressmen may be addressed at "House Office Building," and all Senators at "Senate Office Building," both at "Washington 25, D.C." Address all Governors at: State Capitol, name of capital city, name of State.



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# TRAIL AND TARGET

**WE WERE TALKING** about sighting in your rifle—why you should do it, and what you should strive for when you do it. I said you should sight in the rifle to take the fullest possible advantage of its accurate range potential—this is, at the longest range that will keep the bullet's trajectory inside the lethal target area of the game you hunt.

Right there, of course, we run into a problem. You tell a man that his .270 should be sighted in to hit point of aim at about 275 yards, and he will set up his target 275 yards from his firing point. He fires, doesn't have a scope powerful enough to show him where his bullet hit at that distance, walks to the target, walks back, fires again, walks to the target—Well, you get the picture; this man says, "Hell, I bought a rifle; I didn't sign up for one of those Kennedy walkathons!" He's had it.

This is supposing that he hit the target. If he walks out there and can't find even a fly-speck on the paper, he's really in trouble!

But cheer up, podner! There's an easier way to do it.

You need the rifle, a target (if you don't have a printed target, a home-made one will do fine), a ruler, a pencil, and a sandbag (or something similarly soft but firm) on which to rest the rifle. A tarp, or a shooting pad, or a light camp mattress (a sleeping bag is fine) will make things more comfortable. And you'll need ammunition—the exact kind of cartridges you will use on game. Take a box of 20. Nine times in ten, you won't need even half that many, but once you start shooting, you'll enjoy it, may burn up a few extra for fun and practice. Matter of fact, this is exactly what you should do.

The only other thing you need is a backstop, and you can surely find an embankment or a steep hillside for that purpose. Be sure you do find it; we don't want those bullets skittering across the landscape.

Before you start burning ammunition, let's be sure you know a few things about your sighting machinery. Most modern hunting rifles need click-adjustable receiver sights, or scopes. Such sights adjust for windage (left or right) and for elevation (up or down) by means of screws or knurled knobs that click as they are turned. Most hunting sights and scopes are graduated to move the point of bullet impact one inch per each 100 yards of range for each click of the adjusting device. One click equals one inch at 100 yards, two inches at 200, and so on. This one-inch-per-hundred-yard thing is called "A minute of angle." That isn't exactly accurate, but it's close enough for all practical purposes.

In view of what's to come later, you should also know that this "minute of angle" click works backward for ranges of less than 100

yards. One click will change your point of impact 1/2 inch at 50 yards, 1/4 inch at 25.

One more thing, and you're ready to shoot. In adjusting sights, the rear sight must be moved in the direction you want to move the point of bullet impact. If your first shot is to the right, and you're sure your aim was right when you fired it, you want to move the point of bullet impact to the left—so you move the rear sight to the left. At 100 yards, if the first bullet struck six inches to the right, move the rear sight six clicks left. If the first bullet was also three inches low, crank the rear sight up three clicks. Got it? The same rules apply with a scope.

Pick out your good, safe backstopping embankment and set up your target. A 25-yard pistol target or a 100-yard smallbore rifle target is fine; a white cardboard box with a black aiming point pasted or inked on it will do.

Now pace off 25 yards away from that target. That's right, 25 yards. Never mind about never expecting to meet a deer at that distance; this is where you start shooting. Spread out your tarp or blanket of what-have-you on a flat spot, and put your sandbag at the end nearest the target. You're going to shoot prone, and you're going to shoot from a rest. This is the easiest way to get maximum accuracy with the equipment you are likely to have, and accuracy is important here.

Get down on your belly, settle the rifle into that rest so its sights come naturally to the aiming point, and nudge a couple of holes for your elbows into your ground-pad or the ground beneath it. Slide a cartridge into the chamber, aim carefully, and—squeeze.

The idea behind all this is this. At 25 yards, even if your rifle is badly off-sighted, you will hit the target. At long range, you might not hit it—might shoot shot after shot without scoring—and the shot that doesn't print on the paper doesn't tell you from nothin' about what sight correction is needed. Besides, look at all the walking you're avoiding! And that's not all there is to it.

Your first shot printed three inches right and two inches below the center of the aiming spot. Pretty good, huh? No, that's pretty bad! If your shot was well aimed, and hit that far off point of aim at 25 yards, it would have been *four times* that far off at 100 yards, eight times that far at 200, and at 300 you'd have missed a moose!

We'll assume you're sure that the first shot was correctly aimed. Remember those rules about sight adjustment: you want to move the point of bullet impact to the left, so the rear sight must be moved to the left. You want to move the point of impact three inches, so that means four clicks per inch at this distance, or 12 clicks. You want to move the point of impact up two inches, so you

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crank the other adjustment gizmo up—four clicks per inch, or eight clicks. Got it?

Your next shot should be dead center. I don't say it *will* be dead center, but it should be, provided both shots were perfectly aimed, and aimed the same each time. If you're still off, adjust accordingly. But if you're much off, better figure on shooting up at least the rest of that box of ammunition, because you need practice.

So now you're dead on at 25 yards. Here's the pay-off. If you're shooting a .30-30 with



the 150 grain bullet, your rifle will now hit just a shade less than 3" above point of aim at 100 yards, a shade over 2" high at 150 yards, less than an inch low at 200, and only about 5" low at 250. In other words, is sighted exactly the way you want it!

If you're shooting a .270 with the 130-grain bullet, dead on at 25 means a shade less than 2" high at 100, ditto at 150, maybe an inch high at 200, and only about 4" low at 300. You can do better than that with this rifle and load, but you're okay now to take the next step in your sighting-in procedure.

Pick up your firing-point gear (better visit the target first and pencil a cross over the bullet holes already there, so you'll know which is which later), and move back until you're 100 yards from the target. Now set yourself up again, and fire one.

With the .30-30, if you're centered horizontally but approximately 3" above center (as you should be), your job is done. Shoot as much as you like, by way of proving the pudding (and improving the marksman), but—leave those sights alone!

With the .270, if you're centered and approximately 2" high (as you should be), raise your sight one more click. Fire one. This one should hit center but 3" high—and that, for my money, is perfect for this rifle and this cartridge. It means you will hit about 3½" high at 150, about 2½" inches high at 200, be on point of aim at around 275, and something like 5" low at 325. What better could you want?

That's about it. If you have the time, and the room, move back another hundred yards, or even another 200, just to convince yourself that the rifle really does what the figures say it should. In fact, it would be a good idea to do just that—not only to prove the rifle but to prove to yourself whether you are good enough *with* the rifle to shoot at those ranges. Even from a rest, you'll find that 300 yards is a fur piece to direct a bullet; or, if you find that easy, try it from a standing position. Find out at what maximum range you can put every shot into a target the size of the sure-kill areas on a deer. Then remind yourself firmly never to shoot farther than that at any game animal. Here, you are shooting with everything in your favor—

plenty of time, a still target, no pressure. There, things will be different and less easy . . . including the knowledge that a bad, cruelly wounding shot can leave a sour taste in your mouth that will spoil an entire hunting season.

"But," you say, "suppose my rifle is neither a .30-30 nor a .270?" Follow exactly the same procedure. True, each caliber, each bullet weight, each load will show different ballistics; but you'd be surprised how insignificant the differences are, from the standpoint of sighting in. I have figures here for some 20 big game calibers and loads, ranging from the .25 calibers to the .358 Winchester. Zero sighting each of these at 25 yards (that is, sighting to hit point of aim at that distance) produces a maximum spread at 100 yards of only about two inches. This does not mean that zero sighting at 25 yards produces ideal sighting for all rifles and cartridges, but it does give you a starting point. From there, a point or two of sight correction should enable you to reach, very quickly, the ideal setting which will prepare your rifle to place its shots within the desired killing area throughout its maximum point-blank range—that is, the longest possible

distance over which that bullet's trajectory remains inside the required target without sight change. Once that setting is found, it need never be changed, for average hunting—unless changes are made, or changes occur, in the rifle or in the ammunition.

Marlin Firearms Co. (Dept. SIG, 79 Willow St., New Haven, Conn.) offer, for the bargain sum of \$1.00, a little plastic "slide rule" gadget that gives the ballistics and exact sighting-in data for 55 popular cartridges. They have worked it out to a fine point, recommending zero sighting at from 16.5 yards for the .22 LR to 45 yards for the .220 Swift; but most of the hunting loads show recommended sighting-in ranges of from 20 yards to not more than 30, with a high percentage at 25, as I have suggested. It's a handy gadget to have, worth the dollar the first time you sight in a rifle.

Check your rifle again, by test firing, before each hunt. Different ammunition will probably require different sight settings. But, as you have seen by now, there's really nothing very difficult or mysterious about sighting in a rifle! Just gives you an excuse for a little shooting practice . . . and shooting, as anybody knows, is fun! 

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**PRONGHORNS... SPEEDY AND SPOOKY**

(Continued from page 26)

was decided to hunt antelope or Wyoming goats, as they are locally called, first, then look for muleys in some areas where Bert had spotted good herds long before the season began.

After my abortive stalk, we cruised around, seeing well over a hundred antelopes in the course of the day. Some of the herds had several bucks, but most of them were too small, while some bucks with good horns, were too shy and spooky to make a stalk possible. Cresting the top of a string of ridges, I spotted a herd of antelope feeding toward a bunch of Don's horses. The unexpected appearance of the red Toyota did not startle the prongies, but the horses became interested and began heading our way. We glassed the prongies and though the herd buck's horns were not overly long, they were beautifully symmetrical. After giving the animals a good glassing, Bert decided that I should take the buck. "This season, I'll kill my 80th antelope, but I'll tell you one thing, Bob," Bert said. "This is the finest head I have ever seen. Will go slightly over 13 inches, maybe 14, and the prongs are just right. See if you can't nail him."

While Bert and Gerry remained in the Land Cruiser, I sneaked around the vehicle, and began a stalk that was complicated by the curious horses and the fact that the antelopes were on one side of the crest of a canyon and we were on the other side—hence they could see every movement. Range estimation in the clear Wyoming air is tough, and I had taken some lessons from Bert. I constantly under-estimated, although in other areas I never goofed as badly as I did here. When I figured that I had cut the range to about 200 yards, I flopped into the sitting position, slipped into the sling, and centered the crosshair. The buck shifted position, and when he stood still, I touched her off. A clean miss, and the buck simply moved about 20 feet, and turned to look at the horses, eyeing me once in a while.

When Bert and Gerry arrived, Bert wanted to know if I always took my shots at better than 350 yards! The razzing I got was enough to singe the hide off one of Don's Brahma balls.

As we slowly crawled over the broken terrain toward the horses, the does, fawns, and young bucks began to follow the horses. The herd buck remained on the other side of the canyon rim. Bert finally stopped the Toyota again. "Heck, if I bring you any closer you can throw rocks. Get out, sneak forward and to the left, and don't miss him, dammit," Bert admonished. This was a right far piece for throwing rocks, and later we estimated the range at around 225 yards. This time I connected, although none of us could hear the thump of the bullet. The buck simply whirled, and began moving at a trot toward a draw. Just as I settled the crosshairs again, Bert yelled: "You got him, hold your fire. Get in, and we'll get to the other side of the canyon faster that way." After this particular run in the Toyota, Bert acquired the nickname of "Japanese cowboy," but his skill at the wheel paid off. We stopped the buck in a draw. He was laying down, just turning his head once in a while. He was obviously hurt, and from the canyon rim I

sent a second bullet into him. He simply toppled over.

His horns measured almost 14 inches, and Bert estimated his live weight at around 120 pounds. He showed us how to determine age, and my buck was at least 5½ years old, but could have been 6½ years. The first bullet had angled backward and broken several ribs. My second shot, at 160 yards, was within an inch of the first entrance hole, and had exited through the same hole as the first bullet, breaking the buck's left front leg as it left his body.

After field dressing and skinning my buck, we went in search of another buck for my



wife. No matter how hard we looked for a good head, we could not locate one. Heading across one of the few flat areas on the MW ranch, I spotted a small herd of prongies. We stopped and glassed them, but were unable to see a buck. A fine doe left the draw where they had bedded down and began walking off—not really spooked, but ambling away while putting distance between her and us.

A flip of the coin decided matters. Gerry would try a stalk, and if she could get within reasonable range, she would take a shot. I was to go along, partly as back-up gun, and to take pictures. Luck was with us. We found a drainage ditch that ran parallel to the doe's direction, and it gave us some cover for the stalk. This time, I was lucky. I had selected a sage brush as shooting position for Gerry and had estimated the range at 200 yards. She had earlier taken a poke at a fine buck, but at 400 or more yards, had badly misjudged the range. This shot would tell if my coaching was any good.

The doe was still moving, though stopping to nibble some stuff once in a while. She finally stopped, and Gerry flopped into a sitting position, adjusting her Latigo sling. I got the camera ready. Like on the range, Gerry took a deep breath, exhaled, and the Model 70 bucked. The doe whirled, got her legs mixed up, and piled up within 75 yards. The rest of the herd took flight, first toward the lead doe, then got the blood scent and changed direction. The last thing we saw were the white rump patches.

Bert brought the Toyota across the ditches, and we began to field dress Gerry's kill. The doe weighted around 95 pounds, was 4½ years old, and the shot was a classic lung-

shot. The bullet had caused little damage to the meat, and it was a clean, one-shot kill. Gerry was elated, Bert conducted a war dance, gleefully pointing out that I should take rifle lessons from my wife.

Having got our antelopes, it was now up to Bert to take his 80th, and for us remained the chore of finding two muleys. We had checked in Newcastle, and the areas open for deer had been heavily hit by hunters. Last year, most of the hunters had taken their two legal deer, and the herds were not as abundant. Despite all our efforts, it began to look as if we would not get our licenses filled. Rather than spending all our time looking for muleys for us, Gerry and I insisted that we devote some time to Bert's antelope. Heading cross country, I spotted a herd of them, and the buck was good! Bert jumped out, grabbed his much-battered Weatherby .300 Magnum, and let her rip. The buck was quartering and headed for the horizon, and Bert's soft loaded (54 gr. 4064) Kore-Lokt 180 grain bullet caught him in mid-stride. He ran quite a way, but you could tell that he was sick. He finally dropped. Examination showed that the bullet had missed the liver going in, and had nicked the far lung. The shot was 200 yards on the button—we stepped it off later—and Bert had his 80th—a very nice head.

This was Friday afternoon, and it was time to pack up the gear and head home. Driving along a black-top road, I spotted a bob cat ambling along a dry river bed. I yelled, Bert stopped the Land Cruiser, I hopped out and grabbed the first rifle I could. It turned out to be Gerry's .270. The

cat was headed away from me, but the noise we made intrigued her. She stopped and turned, just as the crosshairs settled on her shoulder and the gun bucked. The cat twitched once, and that was it. It was a big female, weighing about 20 or so pounds, and the 130 grain Hornady bullet had caught her as she turned, taking off the front of the throat. This is the one part of the hide the taxidermist does not need for a rug mount, and I had an unexpected bonus. We tied the cat over the spare tire in back of the Toyota, and headed toward Beaver Creek. We could save a couple of hours driving this way, and we did have to get back to South Dakota that evening.

The western sky was glorious in the sunset, and we had written off the muleys. Just driving through the sage and watching the birds and other small game was fun. But, I could not stop hunting. In a draw I saw what I believed to be muley ears. Taking my 7 mm Magnum, I started for the general area, only to have a buck bust out of the bushes at around 75 yards. When I could get a look at him through the scope, I settled the crosshairs on his chest, and let her fly. The bullet hit him in the middle of a jump, he turned around, made three or four steps, and took a dive. With two points on the right and three on the left, he was not in the trophy class, but at least one of our licenses was filled. It was too late in the afternoon for the Newcastle locker plant to handle the venison, so Bert gave us an expert lesson in deer butchering.

We dropped in to say "thanks and good bye" to Don and Betty Baldwin, and Don, in

typical western fashion, was kind enough to invite us back for next year's season. Barrelling through South Dakota in our Checker station wagon, Gerry reached for her wallet, and began counting her shekels. "Say," she wanted to know, "when does the season open next year and how much is a pronghorn license for Wyoming? If you come along, I'll let you use my one-shot rifle." 



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## GOOD CHECKERING CAN BE MASTERED

(Continued from page 31)

work, which could then be followed up by a hand tool, it would still be worth thousands of dollars." Another checkerer claims that a job which formerly took five hours can now be done in an hour and a half with the Dem-Bart tool. It pays for itself many times over by producing better results than obtained with hand tools and in one-third the time. It is interesting to note that the tool is now used to checker hunting and target bows, and is also used in certain types of furniture carving. Bartolat recently received an inquiry from a firm who wanted to use it in manufacturing and decorating guitars.

Illustrating the effectiveness of these tools, stock work by William McGuire, of Seattle, Washington, is pictured here. McGuire specializes in restocking and restoring high-grade shotguns, using both the Dem-Bart electric tool and hand tools. I examined two shotguns checkered by McGuire with this electric tool, and compared the work with checkering on a \$1,000 shotgun of popular make. Examination revealed that the two McGuire jobs were superior, with absolutely no run-over on the borders. Checkering was clean and sharp, running 24 and 32 lines to the inch.

Gun fanciers will hear a lot more in the future about the striking checkering work of Bill McGuire. His checkering is custom designed to suit the purchaser and his gunstocks are made to the customer's detailed specifications. He has worked for many of

the top gun shops in the past, but now is a full-timer on his own, turning out orders in two or three months, rather than the usual waiting period of from nine months to a year.

It is also interesting to note that McGuire, like Bartolat, entered the gun field because he was dissatisfied with the general run-of-the-mill results. He began stocking and checkering on his own guns, and soon friends and strangers were seeking his fine craftsmanship on their shotguns. For a man who held the world's championship fly casting honors for four years, this is quite a switch, but after looking over McGuire's artistry, I am happy that he did not confine his talents to fly casting. By building fine stocks and checkering them to please the most discriminating shooters, he contributes to the happiness and success of many scattergunners.

With books, printed instructions, and pattern decals available for amateurs, it is no surprise that many gun hobbyists want to parade their checkering talents before their friends. Patience and care are required to follow and cut the checkering pattern neatly. But we can thank men like Joe Bartolat for designing and manufacturing tools that are not only inexpensive, but also do an excellent job of cutting fine lines and scrolls.

Why not try your hand at dressing up your favorite rifle, shotgun or pistol with a neat checkering job? You will be pleasantly surprised at what you can turn out with the help of modern checkering tools. 

## HANDLOADING BENCH

(Continued from page 10)

increases back thrust on firing, increasing pressure and velocity spread. Lube accumulates in chambers so cases fail to grip the walls. For accuracy, foul a clean bore with one or two rounds. Then sight-in.

RCBS has fine premium grade Tungsten Carbide insert pistol sizers, stocked at my suggestion. Try one for a thrilling new

say, are scarce. No loading tool maker has better T-C dies than RCBS, long noted for fine steel dies.

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experience! Police and custom loaders use T-C dies for speed and economy. They outwear 25 regular dies. One T-C die can size 500 hulls daily for 20 years. You'll like them for making better, nicer looking ammo faster and easier. Good ones, I'm sorry to

## ENGLISH GUNS FOR U.S. COLLECTORS

(Continued from page 18)

both preceded the Brunswick by many years and admirably proved the worth of the rifle. But the rifled bore was still regarded with a jaundiced eye even in the middle 1800's.

By 1852, with the adoption of the splendid Enfield .577 rifled musket, firing the expanding Minié ball, all intelligent criticism of the rifle dissolved. The Enfield was without doubt the finest military muzzle-loader ever made, both in intrinsic quality and accurate performance. The piece was simple, rugged, astonishingly accurate even at a thousand yards, not exceedingly bothered by fouling, and—although it had no bearing on its utility—was graceful and handsome.

The Enfield and the Crimean conflict burst onto the quiet English scene almost simultaneously. Working feverishly, the Royal Small Arms Factory at Enfield obtained new, American designed, mass production machinery which particularly pleased Prince Albert. They not only turned out guns faster, but also better. With the aid of American contractors, who accounted for 25,000 extra Enfields, British soldiers were able to hurl accurate Enfield Minié balls at defiant Russians. Interestingly, the tables turned nine years later and English makers were exporting the unparalleled guns to both factions of our Civil War, the Union alone buying almost half a million.

Despite its excellence, the Enfield once almost proved to be the undoing of the Brit-

ish in India. By 1857, production of the Enfield .577 muzzle loader was sufficient enough for the new guns to be issued to the colonial Sepoy troops in the Bengal regiments. The Hindu troops threw up their hands in horror when they found that the bullets were lubricated with pig's fat and the paper cartridges—which had to be bitten open in the process of loading—were waterproofed with the same "unclean" substance. Although they were told that they could break open the paper cartridges with their fingers, the Sepoys would have none of that, and a mutiny resulted which swept the Oudh district of India for 18 months, taking hundreds of lives.

Because of the important part which the English Enfield played in the American Civil War and the demand for it by Civil War collectors and shooters, it is presently the highest priced British military arm. However, only those rifles made prior to or during the conflict can be of authentic interest to Civil War collectors, so pieces made after 1865 drop in collectors' value. Apparently, manufacture of the muzzle-loading Enfield did not cease with the adoption of the breech-loader. For whatever reason they were made, I have noticed a number of muzzle-loading Enfields bearing dates as late as 1878 at substantially lower prices than the guns of Civil War vintage.

When the hue and cry went up for breech-loader, a demand initiated in part by the

issue of American Sharps and Greene breech-loaders to selected British cavalry regiments, the English looked with interest at weapons that loaded from the "wrong end."

In the British mind, the breechloader was a comer, but Ordnance staunchly refused to budge from the position that the charge still had to be ignited from the standard, separate percussion cap. This accounted for a bizarre assortment of "halfway guns" which were actually percussion cap breechloader. In 1853, one of the earlier applications of the now common bolt-action principle was applied to Terry's breechloader, an awkward looking, but well rated gun. Even though they received little more than passing official interest, two better-than-average British breechloaders, the Wilson and the Westley Richards, found their way through the blockade to arm Confederate sharpshooters. Although neither could outshoot the Whitworth hexagonal bore muzzle-loaders, their long range accuracy was not to be taken lightly. Fortunately for the Union, neither of these guns were imported in great quantity, but even the few that were in Confederate hands caused more than a little consternation among the blue ranks. Like the Brown Bess and the Enfield .577, these early British

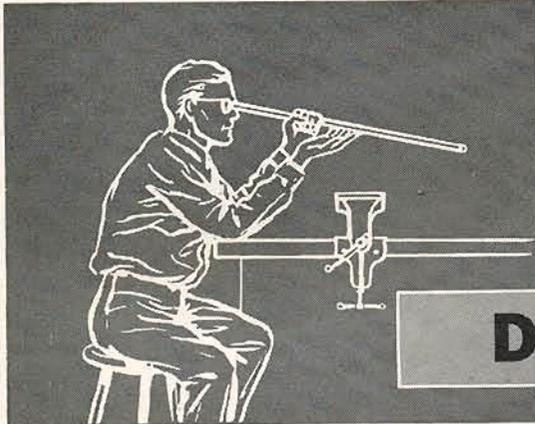
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breechloaders are pieces which overlap both English and American history.

By 1864 the War Office decided that this never-ending flow of good, bad, and mediocre breechloaders was a bit much to bear and tests were held to determine the best system to convert England's stocks of muzzle-loading Enfields into effective breechloaders. The War Office stipulated that the system must provide for internal ignition, thus by-passing the excellent but already obsolescent devices of Terry, Mont Storm, Westley Richards, Prince's, and others. Eventually, about fifty breechloading designs were submitted from which was finally selected the American system of Jacob Snider.

This side-swing, hinged breech block mechanism was simple and efficient—so practical in fact that though the Snider system was adopted as something of a stopgap, the Snider-Enfield continued in use for years, some even being issued to the Home Guard in 1940 when invasion loomed.

In addition to its cheapness, Snider's conversion combined the fine accuracy of the original Enfield muzzle loader with the facility of the breechloader, and it had the durability that British rifles, used in every climate must have. The Snider brass cartridge used 70 grains of powder to push a 480 grain bullet which not only retained the hollow base of the Minié ball, but also incorporated an invisible hollow point.

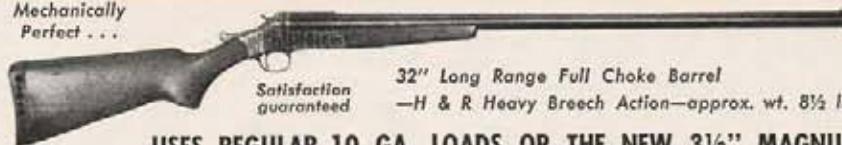
By 1868 the superiority of American firearms innovation was firmly entrenched by such weapons as the Winchester repeater, the Sharps, and the Remington Rolling Block rifles. In 1868 the British Government accepted as its official arm the Martini dropping block, lever-action, a hammerless version of the sidelock gun invented by Henry Oliver Peabody of Holyoke, Massachusetts in 1862. England was delighted with Martini's hammerless version of the Peabody, combining with it the rifling system used in another gun, the Alex Henry (of Edinburgh), to form the famous Martini-Henry.

With its hammerless, internal lock action, the Martini-Henry presented a very sleek and modern appearance—too modern for its time. Fascination with the traditional side hammer, which had been a must on practically all guns since the flintlock, was too great to be overcome with a single gun, and several governments accepted "modified Martins" with sidelock actions that were exact duplicates of Peabody's original 1862 gun. England of course used the hammerless version (as did Switzerland and Turkey) as the official gun from 1869 to 1888.

The only serious competitor to the military Martini was the Soper rifle which possibly missed being selected as the official British rifle because it showed up a day late for the trials. Expert opinion rated the gun as excellent, and this excerpt from the "London Daily Telegraph" of July 18th, 1871 speaks for itself: "... Private Warwick of the 1st Berks appeared with the Soper rifle, an arm which has the reputation as being susceptible of the most rapid manipulation of any which has been invented... firing in his peculiar position lying on his back, the sling of the rifle round his right leg, the left foot under the right calf, and tightening the sling, the butt under the right armpit, and the barrel resting in the angle formed by the legs being crossed, Private Warwick worked with the

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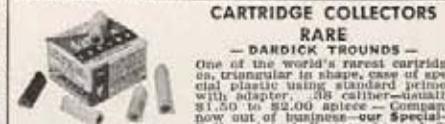
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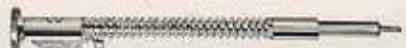
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regularity and rapidity of a human mitrailleur getting off 68 rounds in two minutes and scoring one eye, 18 centres, and 33 outers, or a total of 124 points."

By 1888 the demand for repeating weapons, fed by American successes with the Henry and later Winchesters, could no longer be resisted. In that year Britain firmly planted itself in the modern age with the adoption of the Lee bolt action repeater (another American design) which, combined with the Metford .303 barrel, became known as the Lee-Metford. In 1895 a modification gave rise to the well known Lee-Enfield. In spite of its rapid fire quality, the Lee-Metford got off to a very discouraging start. Commenting on the "economy" of using

surplus Martini stocks on the Lees, H. J. Blanch said, "If a separate butt (were) desired it could hardly have been designed to embody more disadvantages. Taking the Lee-Enfield as a whole, it may be confidently asserted that no gunsmith worthy of the name would have passed such a design."

The fact that a gun first saw the light of day at London, Birmingham, or Enfield is not to say that it led any less colorful, exciting, or meaningful life than the coveted relics turned out long ago at Springfield, Hartford, or Ilion. The arms that built the British Empire are truly giants among firearms and are certainly worthy of the attention of American collectors. And they are beginning to get it!

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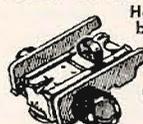
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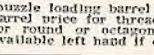
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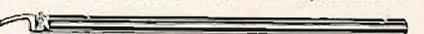
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## MY GRAND SLAM PLUS BONUS CATS

(Continued from page 33)

jumping out of a ditch with a big tom cougar right on his tail. We were on them in seconds, but that lion was so intent on harassing the dog that I don't think he was aware of us until we stopped just a few yards from him. The lion looked up at us and seemed to prepare for a belligerent stand. I jumped from the pickup, loading my gun, but before I could get a shot off he disappeared into the shadows.

Prock stepped to the tailgate and unleashed his thirteen hounds. Pandemonium broke out as the dogs first ran in every direction then, getting the scent, dove into the blackness. The dogs had the cougar up a 12" pine tree in less than 100 yards. One shot and Mr. Prock's guarantee was fulfilled. What a wonderful trophy, a 160 pound tom lion whose skull measurement will put him in the top half of the record list. And what a moral booster for my coming sheep hunt!

Daybreak on the morning of December 7 found Bob Housholder, his assistant guide Jim Tankerslee, and Phil Williamson and myself—two hunters seeking Desert ram to complete our Grand Slam—camped in Eldorado Canyon near Lake Mojave, a few miles below Hoover Dam.

We had absolutely no luck the first two days, but the third day was one I'll never forget. Among the things I'll always remember is that 15 mile ride in an open Jeep with the temperature at 20 degrees and snowing. Expecting temperatures in the 90's, I'll never know why I took my long Johns along, but I was sure glad to have them.

Riding along, headed for the other side of Fire Mountain, we had sneaked over to take a look at a spot where an ewe had just disappeared, when my old habit of looking behind me paid off. I turned to look back and there was my ram, looking at us. Where he came from I'll never know, and a 300 yard neck shot stopped him from getting to where he was headed.

Phil got his ram the 6th day—two hunters, two rams—Arizona was really smiling on us now. This is the ultimate, I thought, a record book lion and now a Desert ram to fill my Grand Slam. But, let's give credit for this good fortune where it belongs. Bob Housholder is an authority on desert sheep, and a stalwart champion of legislation to better their plight. It was because of his advance expeditions and planning that we were now enjoying the success of our hunt.

Bob's records of Grand Slammers of the world showed that I was number 46 and, as far as I know, the only one from the state of Virginia. My 37,000 miles of travel over 6 years, and four shots had brought me to the culmination of my goal.

After our successful sheep hunt, Phil Williamson decided that he, too, wanted a lion before he went back to Maryland, and so we headed for Phoenix and C. J. Prock. I went along to get some photographs.

We left Phoenix at 4 A.M., stopped for breakfast, and at the third mountain pass, where lions sometime cross, our strike dog opened up as soon as she was let out—not 150 yards from a fully illuminated service station. About a quarter of a mile ahead the dogs suddenly stopped barking—the lion had treed and the dogs had run past. They

were soon at the base of the tree, and the noise began again.

The nervous lion paced back and forth on a horizontal limb, and since it was still too dark to take pictures, I asked if he would hold there for better light. "Better shoot him," Prock advised, "there's a rock cliff close by, and if he jumps, he'll get away." Phil lined up his sights on the lion, and down he came.

We were back into town, delivered the lion to Jeff Sievers taxidermy shop before 11 P.M., and Phil caught a plane that got him home before supper that night. You can't beat that, I thought, but little did I guess what was to come.

After the hunt, we were at the motel, getting packed for our trip home when Mr. Prock called. A rancher had just called him about two jaguar—common in Old Mexico, but seldom seen in Arizona—that had been killing his cattle. "Do you want to go?" An eager scream of "Yes" gave him the answer, and I was on my way.

We met the ranch foreman at a small town near the New Mexico border, just a few miles from Old Mexico. The foreman could not go with us, but gave us directions to where, two days before, his men had spotted a jaguar. To be able to track from here would be pure luck, but when two or three dogs were let out they hit a hot track at once. We grabbed cameras and rifles, and as we rounded a bend, saw what looked like a lion at bay about 100 yards ahead. We didn't get a closer look before he was gone, but when we rounded the next turn, there he was, a jaguar fighting the dogs on the ground.

Prock said, "Watch out now and don't get too close or she'll jump on you." Prock was absolutely fearless around lion, but jaguars are a different story. "I'll yank a lion off my dogs by the tail, but not a jaguar." "These cats can get downright nasty," he explained. While he would not have been concerned with what gun I used on a lion, he asked "What are you going to shoot that jag with?" When I said "My .300 Weatherby," he was satisfied. "Good, when you shoot that one I want it dead, or she'll kill my dogs."

The action was something to see, and we were constantly running ahead getting pictures as the dogs and jaguar worked from clump to clump. She had dogs down a few times, but when she got one down, two or three others would nip her from behind, and she'd turn on them. It all happened so fast one could hardly believe it, but I've got 100 feet of 16 mm movie film to prove it.

I was almost afraid to shoot for fear of hitting a hound, but finally got an opening for a sure, one shot kill. The dogs hit another track that may have been a jaguar, but the evening wind in that dry country blew away the scent.

I was a happy hunter! I had completed my Grand Slam, got a record class cougar, and finished my trip by polishing off the largest female jaguar in the record book as my Arizona bonus. Fabulous, yes, and I hear they have what is known as the Arizona Big Ten—I must find out more about this, soon.

## VARMINTS AND THE XP-100

(Continued from page 39)

that I could do a much better job with the XP-100 using a rifle rest than I could off-hand, and used my Carter Telescopic Shooters Tripod with very good results. Frankly, I've never been too good with a handgun, and the tripod certainly made a lot of difference.

Using the regular .221 Remington Fireball factory loads sighted-in at 25 yards, I found that I was back on zero at just about 150 yards. To double-check this, I got a friend, who is a better pistol shot than I am, to try it, and he confirmed the range. Even with the rifle rest I found more wobble with the XP-100 than with my .222 Magnum varmint rifle—considerably more, yet it was not enough to throw me off a target the size of a woodchuck at distances up to 125 yards. Beyond this range my score was not too good. Up to 90 and 100 yards I could hit a chuck-size target close to where I wanted to most of the time. This was enough to convince me that the extra wobble was actually slight after all when speaking strictly in shooting terms.

There was not enough muzzle blast to bother me, and several friends, more allergic to muzzle blast than I, who tried the rig experienced no objectionable recoil or "jump."

Finally, my old shooting crony, Freeman Brown, and I took the XP-100 out for a try on woodchucks, and because he's a better pistol shot than I, he did a good share of the shooting.

We found the .221 Fireball load in the XP-100 to be a hot little baby on woodchucks, capable of better accuracy than either of us was able to get out of it. We clobbered chucks up to 100 yards (a few at longer ranges) and I don't doubt that the XP-100 is highly capable of kills at considerably longer ranges.

The 1.3X Bushnell Phantom scope is a dandy little piece of equipment, and the fine cross-hair reticle seemed well matched to the power. However, I think that the 1.3X of this scope falls a bit short for varmint work. At anything over 100 yards, a chuck offers a mighty small target, even with the slight amount of magnification offered by the Phantom. I think that a scope of about 3X, with the good arm-length eye relief of the Phantom, would help those 100-150 yard shots at the smaller varmints. The ideal, I think, would be a variable scope of about 2 X-4 X, and if the XP-100 becomes popular as a varmint pistol, I think that one of the manufacturers will offer such a scope.

The report of the .221 load is not as loud as that of the standard .222, a strong point in its favor for varmint use, especially in more thickly settled areas. I stopped using my .243 in most of my varmint hunting country some time ago—the loud crack excited too many people. Quite a bit of my varmint shooting is done in areas where walking horses are raised and trained, and there's nothing like the loud, echoing crack of a rifle to make these high strung horses jittery. Less shooting noise means less objection from neighbors, and the not-too-objectionable report of the XP-100 coupled with its under 200 yard range, gives it a bit of an edge over a lot of varmint rifles.

The expansion qualities of the 50 grain factory bullet were good, all opened up nicely in the woodchucks I hit, and it approached the effectiveness of the 50 grain soft point in the .222 Remington rifle.

For ground squirrels of the larger western variety, prairie dogs, marmots, woodchucks, jackrabbits, and finally foxes and coyotes that can be coaxed within reasonable range, I am going to class the XP-100 as a good little varmint gun within its range—75 to 125 yards for average shooters, and up to 190 or 200 yards for the real experts. Improved scopes could up this 25 to 35 yards for average shooters. One chap made some good shots on crows with his scoped XP-100. He has a couple of 150 yard kills to his credit already, shooting in hill country where crow shooting with the .221 Fireball is safe.

Most varmint shooting fans will eventually want to own more than one gun—rifle or handgun—for their sport, and the XP-100 makes an ideal "second gun," but it does not take the place of a rifle. That this new handgun and scope has limitations for average varmint shooters, but both are valuable additions to any varmint shooter's equipment. But, as a one and only varmint gun, this new Remington pistol lacks the long range potentials of a good rifle.

Some of the areas where I hunt woodchucks are not really suitable for the XP-100 because most of the shots come at ranges between 150 and 350 yards. Hunting areas

with lots of wide-open territory call for the use of a rifle, in my opinion. In more thickly settled farm areas where the chucks are used to more noises of different kinds and are not so jittery, the XP-100 is at home.

I believe that, along with owning good quality equipment—be it a rifle, handgun or shotgun—knowing its capabilities in your hands is the most important factor to a successful and enjoyable hunt. That's why I prefer to test new shooting items just as I did this XP-100. The only equipment I used was the factory pistol, factory ammo, a standard Bushnell scope, and good varmint country. I failed to chronograph the loads, and I didn't try to improve them by hand-loading, but in spite of this, I found out just what I could do and, more important, what I couldn't do with this pistol-scope combination.

Perhaps there are expert pistol shots who can perform all sorts of miracles with this outfit, and no doubt they could pin my ears back when it comes to long range groups. I doubt very much if they will get more enjoyment from this pistol than I get shooting chucks and crows at reasonable ranges. And, after all, having fun with guns is what counts!





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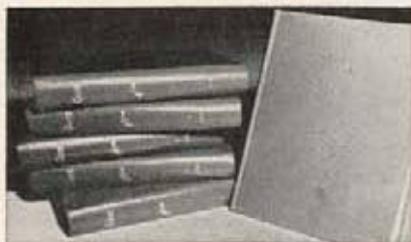


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## CONSERVATION CLASSROOM

(Continued from page 21)

education in specialized fields. For them, however, the courses offered by the North American School of Conservation, with headquarters at 941 North Highland, Hollywood 36, California, have proved of considerable value to a great many students during the ten years this correspondence school has been in operation. Tuition runs under \$200, which can be paid over a period of time. The entire NASC course is divided into 80 lessons, 20 in each of four major divisions: Game management, fish management, forestry and National Parks, and employment opportunities. The 80 lessons take an average student about six months to complete, each student setting his own pace, geared to his available time.

One of the most interesting facets of the course offered by NASC is the annual summer camp for intensive in-the-field training. This summer encampment is optional with each student (no matter how far along he may be in the regular correspondence course) or graduate of the school.

The K Bar Z guest ranch, which hosts this annual July seminar, is located in the scenic and wildlife-rich Sunlite Basin, some 50 miles northwest of Cody, Wyoming. This is in the enormous Shoshone National Forest area, east of Yellowstone National Park.

After having served as a counselor at three of the last four July camps at the K Bar Z, I'm fully convinced that NASC offers a very valuable auxiliary service to outdoor-minded young Americans. The camp has expanded from a single week in 1960 to a full month in 1963. The lecture and demonstration program has been correspondingly expanded and improved so that every enrollee has an opportunity to study the requirements and responsibilities of many outdoor vocations.

Chester Leichardt, summer camp Director, is responsible for setting up lectures and question-and-answer sessions with specialists in various outdoor fields. As a long-time game warden, Chet handles the sessions on game law enforcement himself, drawing much of his material from Federal regulations and his own experiences of "search and seizure" techniques.

Lecture sessions and demonstrations are given by predatory animal control agents, foresters in charge of insect and fire control, fish hatchery specialists, guide-outfitters, and experienced hunters who talk authoritatively on firearms and ammunition.

Every day is filled with serious activity at the summer camp. Following a husky breakfast, served promptly at seven o'clock, the students assemble for a full morning of lectures and demonstrations. At the noon meal, the afternoon and evening plans are announced, if special activities are planned. Ordinarily, the students are allowed to pursue whatever recreation they wish; some go horseback riding, hiking, exploring, fishing, and a few sample the varmint hunting by stalking the ground squirrels and rock chucks of the area. The evening meal, at 6 PM, by no means terminates the days activities; many fine outdoor and wilderness movies are available to furnish abundant evening instruction and entertainment.

The students are housed in groups of four in snug, comfortable log cabins. Each cabin has comfortable bunk beds, a bathroom with shower, hot and cold running water, and a Heattillator-equipped fireplace.

Perhaps the most interesting, and certainly the most extensive, expedition each week is an overnight sleep-out and cook-out in nearby Yellowstone National Park. This gives students a wonderful outing among that wonderland's thermal springs and wildlife attractions. They sleep and eat at Yellowstone campsites, attend an evening lecture by park rangers, and can ask their fill of questions about the operation of this most famous National Park.

This trip is made in the school bus maintained by the K Bar Z; a vehicle which also serves as a base of supplies and storage of equipment. This transportation is also occasionally used for fishing trips to streams some little distance from the guest ranch when enough students elect fishing for their afternoon recreation. The catch of trout - cutthroats, rainbows, browns and brookies - are cleaned and stored in a walk-in refrigerator until enough have been accumulated to provide one of the highlight meals for the entire camp.

Here are some brief sketches of the ground covered by the various specialists during the daily lecture periods:

On game law enforcement, Chet Leichardt discussed the methods used to collect evidence of market-hunting kills and how to apprehend poachers. Chet made the telling point that game conservation is everyone's business. When a market hunter traffics in wildlife, he is actually thieving from the public.

In the field of predatory animal control, George Marmon and Mark Plaster, two Fish and Wildlife predatory animal control agents stationed in Wyoming, provided a vivid description and demonstration of their work, which is usually confined to tracing down and either trapping or shooting individual animals that have taken to killing domestic livestock, game birds, or animals. Among the game species only the bears sometimes come under the predatory or nuisance classification. If a bear starts killing livestock or becomes dangerous to humans it is either trapped or shot. But if it is merely a nuisance, it is usually trapped in a steel culvert-tube type of trap that's mounted on low trailer tires. Once the animal is captured, the trap is hitched to a pick-up truck and hauled 15 to 20 miles into the wilderness where the animal is given its freedom.

Timberland maintenance was covered by Tom Quinn, one of the caretakers of the immense Shoshone National Forest, who told the students of the various regulations by which timberlands are protected against fires and occasional outbreaks of damaging insects. He expressed great admiration for the work of Navajo Indian fire-fighting teams and cited their feats of fire suppression. These teams train year-round and are available for air-lift to any rugged area where expert fire-control methods are needed. Quinn told of how the teams are organized so they're very nearly self-sufficient on any job

assigned to them. In recent years such Navajo teams have been flown as far afield as Maine and the Pacific Northwest to whip dangerous, out-of-control fires.

Fish specialists, especially of the western states, talked of the growing concern about the rapid deterioration of previously good trout waters. A recent study of Wyoming streams showed that barely 2 per cent of its 19,330 miles of trout streams can now be classed as premium trout waters.

A study of the effects of altering the course of 13 Montana streams or rivers—for railroad construction, road or highway construction, urban and industrial development, and agricultural activities—revealed that one-third of the total fishable lengths of those streams had been reduced to inferior trout production. While this is a blow to natural production of fish in natural habitat, the resultant expansion of fish hatcheries everywhere naturally opens many more jobs to NASC students and other qualified personnel who are interested in the many facets of fish study and culture.

Jack Streeter, a tobacco-chewing, rough-talking, expert wrangler and packer, was professor-in-charge of horse packing and saddling. In two days, he had the students catching and saddling their own mounts for afternoon trail rides; and in two more days he had the most interested members of his class throwing passable diamond-hitches on pack horses.

I was privileged to conduct the lectures on firearms, and covered basic marksmanship, sighting-in, gun care, and gun safety. Since firearms are essential tools in many forms of outdoor life, from plinking recreation to serious use for game-getting and varmint control, I strongly criticized the continuing efforts of some groups to have all guns registered, or to outlaw gun ownership entirely.

The lecture on the efficient use of the shotgun covered proper shot sizes for the game sought, patterns, and the importance of knowing what the pattern of your gun is before you go into the field. Also covered were the available gauges, and the good and bad points of each.

"Jerk" Steiner, in charge of the K Bar Z hunting camps, discussed the fine points of setting up and selecting a suitable camp in the wilderness. "Roughing it, when you can be comfortable, is for the birds," he told the NASC students. "With proper planning you can have a snug, weather-tight camp with the same effort used in pitching a miserable and uncomfortable one. You want to pick a spot where you're out of the prevailing winds, where rain or snow won't flood you out, where dead snags won't fall on you.

"A good camp site is near wood and water, and on level ground where you can work and sleep comfortably. Another requirement is graze for your horses, for as long as you intend to stay."

Very frankly, when I first heard of the North American School of Conservation, I

thought it was simply another correspondence-course school which made superficial returns for the tuition charged. But, when I learned that several conservation agencies accepted the NASC course in lieu of six months of college education, and when I heard of the annual summer camp, and witnessed its business-like operation, I was forced to swallow all of my previous doubts.

There are growing opportunities for work in the great outdoors, and those young men who want to establish themselves in a career that will help this country preserve its vital wilderness and outdoor recreation areas now have, through our high schools, colleges, and universities, and through the NASC, the means to gain the education required for this employment.

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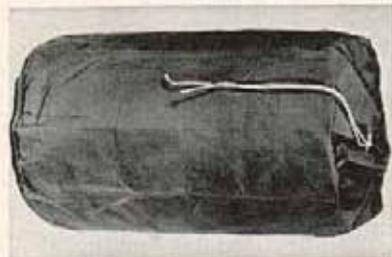
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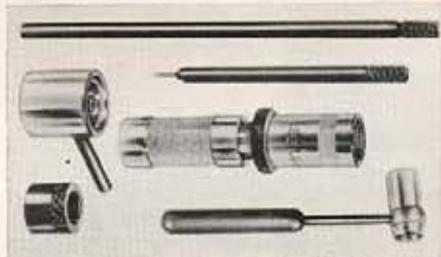
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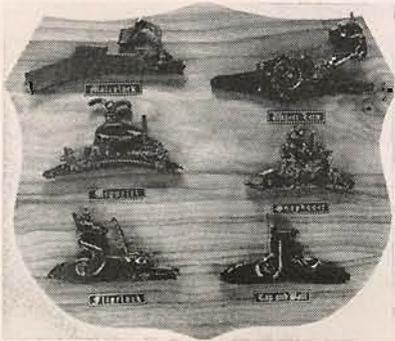


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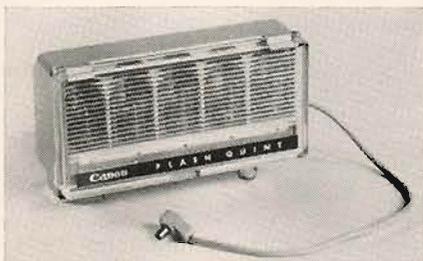
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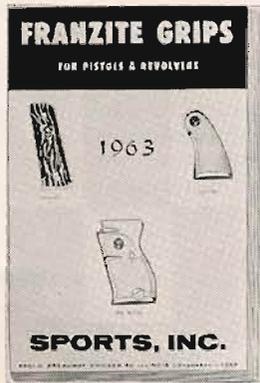
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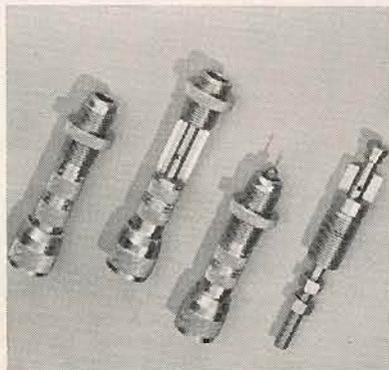


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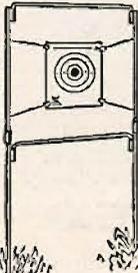
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## BAGGING A RECORD MUSKOX

(Continued from page 19)

Eskimos find their way around country they have never seen is beyond me. I settled with Ed that we would need two dog sleds, one to carry us and our gear, the other to bring home the muskox.

I had not realized how far advanced Ed was in his method of hunting. When we met for the first day of the hunt, he was warming up a snow plane—the only one on Nunivak—and on a long rope we dragged along the sturdy sled. Wind and wind-driven snow cut the visibility to 200 yards when we left that first morning. Ed had decided to follow the

who had obviously left the herd to lead a lonely existence.

As I approached the bull on foot, he snorted and made fake charges, but always came to a stop about 15 or 20 yards away. His head-shaking and grunting was, if it was to intimidate me, achieving its purpose. The other animals were standing at a distance, and I had a chance to study the bull's horns... they were exceptionally fine.

The old bull continued to make his short charges toward me. Although I had decided to shoot him, I held my fire since I did not want to take a frontal shot, thereby taking a chance of ruining the head. The longer I stood my ground, the more nervous the bull became, and finally he turned broadside. I placed the first shot from my Model 70 in the new .300 Magnum caliber right into the heart. I could hear the 180 grain bullet strike, but the animal hardly finched. Three more shots into the shoulder area finally brought the big bull down. Measurements later proved that my guess out there in the snow was correct: I had collected a new Alaska world record muskox.



shore line north and east from Mekoryuk and to keep going in that direction until we found muskox. We almost ran over a small herd of reindeer, saw several white foxes, snow owls, and hawks as we progressed northeastward.

After 10 hours of fruitless hunting in the sub-zero temperature, we headed back to the village. Hot seal liver and coffee put life back into our bodies, and we decided to head inland toward the center of the island the next morning. When we were ready to leave, the weather had cleared somewhat. The further inland we got with the snow plane and the towed sled, the more frequently did we have to push the heavy sled when it became stuck. Ed and I worked hard in the low temperatures, where every muscular exertion is twice as demanding on the body as the same amount of work would be under normal conditions. At long last Ed suggested lunch, pre-cooked reindeer meat and a candy bar. Just as we settled for a quick snack, the wind came up again and blowing snow began to fill the air. As the wind increased, the visibility decreased, and Ed finally suggested that we return to the village. How Ed ever found the shore in the darkness and then followed a landmark to the village remains a mystery to me.

The next morning the ever-present wind swirled snow around our snow plane and after several hours of scouting the country, we spotted the first muskox herd. The small herd appeared ghost-like in the blowing snow. There were about eight bulls and in their fashion, they had formed a half circle, all standing there facing us. As is their nature, they would not run and were not overly concerned with us. They are stocky animals with heavy bones, and the body is covered with extremely long hair, making it almost impossible for any predator to kill a muskox. When the animals feel that they are threatened, they form this half-circle line and stand ready to take on any intruder. We looked them over carefully, but decided that there was no record head among them. Shortly after leaving them, we saw a giant bull

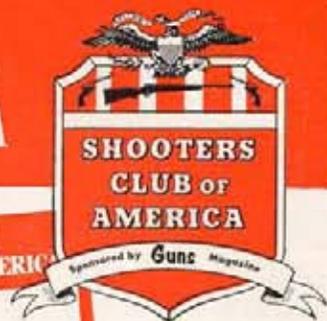
While the bull and I had put on our show, the wind had steadily increased and my planned picture session was hampered by the fact that the snow covered the animal just as fast as I brushed it off. Ed warned me about delaying any longer. With the coming darkness and increasing wind, we might have trouble getting back to the village. We gutted the animal as quickly as possible, and then managed to get the 600 pound carcass on the sled. Several times the heavy sled got stuck in the snowy draws and had to be horsed out, a job that exhausted us quickly. It was almost dusk when we reached the village. From the moment we left the village in the morning until our return that evening, I did not know once in which direction we were headed, but Ed Shavings had the instinct of all Nunivak men—a true hunter with an almost incredible sense of direction.

The muskox was skinned the next morning and Dr. Heldt collected the rare brain. We then sent word out that the villagers could come and get the meat. Their indoctrination had been complete. Most of them would not come near us, and a few heroic ones came to watch the skinning. Eventually, some of the men came to get some meat, but we never could give all of it away. Although it tasted like choice beef, most of the natives refused to touch it.

The following day, the currents in the Bering Sea pushed some of the surrounding ice away, and we joined the Eskimos for some seal hunting. They hunt seal for the skins and for the meat, and I was lucky enough to locate and collect a very large bull oogruck or giant bearded seal for the museum. This hunting is done from skin boats made from walrus hides that are stretched over wooden frames; power is supplied by outboard motors.

As the plane took off from Mekoryuk, I decided that someday I would return and join the Eskimos in a skin boat hunt for giant whales. Despite its isolation and hardships this, as far as I am concerned, is the true land of the hunter.

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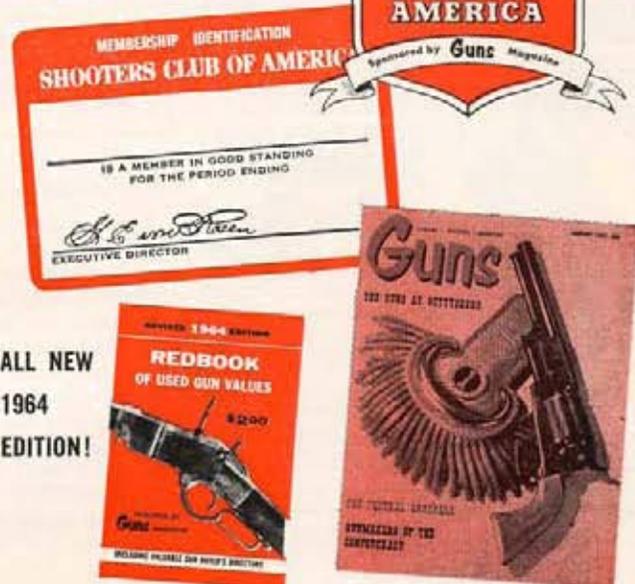


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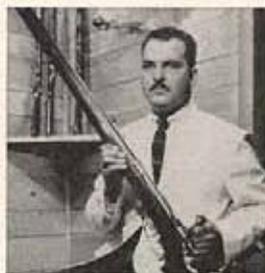
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**Eddie BAUER** Seattle 72, Washington Dept. P5



# 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.

octagon part of the barrel is 1A (or Roman numeral VI), and on the right side of the frame is the word SPAIN.

The grips are genuine ivory and the cylinder and frame are engraved. It is in near mint condition inside and out. The bore measures exactly 7 mm.

Can you tell me who made it, when it was made, and what caliber it is?

W. E. Goforth

*There is no way of telling you who made your Spanish revolver—or when it was made. A number of outfits in several Spanish cities turned out hundreds of variations of cheap revolvers and threw them on the world market. The ones of lesser quality were often only marked "Spain"—and in small letters. In some cases the arms were not safe to shoot.*

*The most productive period of these cheap Spanish arms was between the two World Wars.*

*Makers of quality arms in Spain today are still fighting to gain recognition and acceptance because of the reputation of these earlier products.*

*I would have to have a chamber-cast to tell you the cartridge involved.*

*My advice is to never shoot it!—c.n.*

## S&W Variation

I own an S&W Model 1891 Third Model "Perfected Target Pistol" .22 single shot, serial #9582.

Is my pistol the improved version with short chamber and bore diameter of .223 instead of .226?

At what serial number was this change made?

Dan Sobolewski  
Baltimore 24, Md.

*The 3rd model "Perfected Target Pistol" was started with Serial No. 4618 in December of 1909.*

*I have no way of knowing at what point changes or variations came into the line. My suggestion is that you write to the Smith & Wesson Co. and ask if their records will help explain the situation.*

*When these pistols are found in excellent or better condition they are well liked by collectors of Smith & Wesson arms.—c.n.*

## Rifle, Ammo, and Scope

I want to replace my sporterized Springfield with a Remington slide-action rifle. I prefer .30-06, but am afraid .308 Winchester will be the only cartridge the government will produce and I want the cheap ammo. Do I have anything to worry about?

Will this rifle be accurate enough for game at 350-400 yards? If not, what will it do?

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Hunt Engineering, Inc. 264 Coronado Ave., Dept. GM-1 Long Beach 3, Calif.

## .44 Special Loads

I am still interested in shooting the old .44 Special S&W shell but do not see much on the reloading of this shell, looks like every article has now gone to the magnums.

I would like to use the 200 grain SWC Markell bullet and the 231 grain SWC Markell bullet, would like to use Hercules #2400 powder with CCI primers #550 or if there is a better load using a different powder and primer I would appreciate your advising me. In the event I should want to use CCI primers #300 what change in powder would I have to make, would also like the psi and fps on any load you care to recommend.

John J. Wright  
Springfield, Tennessee

*Back when I loaded the .44 S&W special I used No. 5 pistol powder and Bullseye, but I see nothing wrong in your using 2400.*

*My favorite load was seven and one half grains of No. 5 using a 246 grain bullet. This gave about 950 foot seconds and about 9,000 foot pounds pressure. Although I considered it to be a rather crisp load I have known others who considered it rather nominal.*

*When using a hotter primer put your load down a couple of full grains and then work back up until you find what you want.*

*Although the .44 magnum may be quite an innovation these days, the old .44 special, well fed, was all the handgun I desired. I remember Frank Wheeler of Osborne, Kansas, remarking, when the .44 magnum came out, "Hell, this thing doesn't have anything that we haven't always had with our hand-rolled .44 Specials!"—and I'm inclined to think he was right.—c.n.*

## Spanish Pistol

I have in my possession a very unusual revolver. The cylinder is 1 7/8" long and is seven shot. The barrel is 3 1/2" long, part round and part octagon. The front sight is integral with the barrel. There is no provision for a rear sight. It is a solid frame gun that measures 7 1/2" over-all.

It is a single or double action revolver with a safety on the left side which blocks the rebounding hammer. The number 14 appears on all parts. The number 76 (I would guess it is the serial number) is on the butt. On the

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7017 N. RAVENSWOOD, CHICAGO, ILLINOIS

Which scope do you think is best for all-around use: 2½X or 4X?

Wm. Richardson  
Palatine, Illinois

I wouldn't worry about there being any shortage of .30-06 ammo. You can't use military ammo on game anyway; and if cost is a problem you can always handload.

Game shots at 350-400 yards are not common, but both cartridges will perform well at those ranges. The usual situation is that the good rifle will do more than the hunter is capable of making it do.

For general work, I would advise using the 4 power scope sight. Many hunters with experience in using iron sights can start right off with a 6 power scope.—C.B.

### 8 mm Mauser Loads

I bought an 8 x 57 Mauser, marked "AMBERG—1918" on the top of the barrel. The left side of the bolt is marked "GEW.98" and "4931."

I would like to know what make and type of rifle this is. The military stock has been replaced with a custom stock and a Redfield peep and Lyman front sight have been installed. Could you please let me know what you think of this rifle for deer and black bear?

I was told that for deer and black bear the best load is Norma's 227 grain load. Is this the only make I can buy, and if there are other makes, what load should I use?

I think GUNS Magazine is the best in its field.

Anthony DeSalvo Jr.  
Chicago, Illinois

Your Mauser is the model of 1893 made by "Amberg" in 1918. It is a good sound sporting arm if in good general condition. It is an excellent choice for deer and black bear. Don't worry about obtaining the very heaviest of bullets in the 8 x 57 mm cartridge. The American loadings using 170 grain and 200 grain bullets are fine and dandy for black bear and deer.

You will find that your only problem on the game mentioned is to place that 170 grain 8 mm bullet in the vital spot of the animal. The answer is sighting-in with the ammo to be used and practice. If the average American hunter used 15 rounds out of every box for sighting and practice and the remaining five for actual hunting we would have less cripples and happier hunters.—C.B.

### Rolling Block

A little over a year ago I purchased a Remington rolling block rifle in 11 mm (.43 Spanish) caliber. I enjoy shooting this rifle but I am running out of ammunition and shoulder.

I noticed in the Sept. '63 issue of GUNS that an advertisement said that they could be converted to .44 Magnum. I would like more information on this type of conversion.

Donald W. Baxter  
(No address)

I would suggest that you keep your .43 Remington rolling block in that caliber.

Currently .43 Spanish ammo is available and it will probably be available for some

time. When the time comes that the round cannot be purchased, then worry about a conversion.

Whatever happens, remember that your Remington rolling block action is a fine gun, and can be used for a number of possible conversions.—C.B.

### .30-06 Accuracy

I plan to buy a Remington slide action .30-06. Is this gun accurate enough for 300 to 400 yard shooting on medium and big game?

Are you familiar with the scopes made by Herters of Waseca, Minn.? What do you think of their best variable scope? They claim it is the "finest procurable variable power scope." It is priced at \$43.25.

William Richardson  
Palatine, Ill.

The .30-06 cartridge is quite accurate up to 400 yards and beyond, and the Remington rifle will give you hunting accuracy. More important you should be capable of placing your bullet into a vital area at those long ranges. In the vast majority of cases the man behind the gun is the weak member of the team. The answer, of course, is practice and more practice. Further, although the .30-06 will kill at 400 yards you might normally plan on creeping closer to insure a greater amount of striking energy.

The Herter's scope is a good one for the money.—C.B.

### Pieper Shotgun

Could you please give me any information, including approximate value, on a 10 gauge double shotgun with laminated steel barrels. On the receiver is "Pieper Arms Co." On the rib between the barrels is "Patent 483366 Decb. 28, 1892." On top of the left barrel is "Laminated steel," and on the right barrel is "Modified Diana."

The serial number, found on the metal part of the fore-end and on the underside of the barrels, is 70243. The gun has double triggers and external hammers, and has some engraving on the chambers, receiver, and trigger guard.

The metal parts are well preserved, with no signs of rust. However, the bluing has been worn to a shiny silver. The stock is checkered, and has gouges and dents.

G. Rodney Shewchuck  
Alberta, Canada

Such a shotgun has a very low value. It was made in Belgium and is not coveted by American collectors. Further, the shotguns with "twist" or "Damascus" barrels are not to be used with any modern smokeless loads of any kind.

In the minds of many you have nothing more than an arm that can be used for decorative purposes, and probably worth about \$10.00 or less.—C.B.

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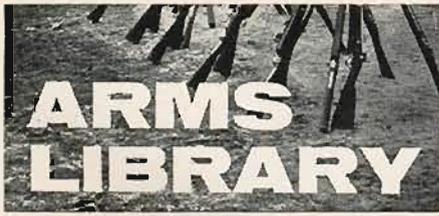
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**THE BOOK OF RIFLES**

By W.H.B. Smith and Joseph E. Smith  
(The Stackpole Company, Harrisburg, Penna., 1963. \$12.50)

The earlier edition of W.H.B. Smith's books have become standard works on the rifles, the handguns, and the military arms of the world. Lately, we had the pleasure of reviewing the updated and revised edition of "The Book Of Rifles." As in the monumental "Small Arms Of The World," Joseph F. Smith has done a fine and painstaking job in up-dating the book and filling in some of the holes that had found their way into the earlier work. Editor Smith and Stackpole must be congratulated for the fine work that was done on this new edition, one no shooter should be without.—R.A.S.

**THE DALTON GANG**

By Harold Preece  
(Hastings House, 1963. \$5.95)

Writers, and the starry-eyed cameras of cinema and TV as well, have been kind to the Daltons, painting them almost unanimously as nice boys forced into Robin-Hoodish outlawry by circumstances and lack of appreciation. It is refreshing now to find a book by a writer who went to the records instead of to the legend—such records, for instance, as the Pinkerton Archive files, in which the Daltons are pictured minus the Hollywood halos. This is a definitive study of the Daltons, from childhood to Coffeyville, Kansas, where they attempted a two-bank hold-up and met instead the one thing no outlaw gang has yet survived—the gunfire of armed and outraged citizens. The story did not end at Coffeyville for all of the Daltons, and Preece does not leave it there; you will find surprises also in the closing chapters. Read them and see!—E.B.M.

**BRAVE WARRIORS**

By Norman B. Wiltsey  
(Caxton Printers Ltd., Caldwell, Idaho, 1963. \$6.50)

Years of research went into the writing of this condensed, fast moving, and highly readable history of seven great western Indian nations—the Nez Perce, Cheyenne, Modoc, Apache, Crow, Comanche, and Sioux. Some will say that this book gives the Indians the best of it, but if it does (and this reviewer doubts it), isn't it about time? This book is a refreshing change from the old narratives of hate that made every Indian victory a massacre, and every white massacre a victory. Indians and whites alike should welcome at least the fact that the time has come when a fairer picture can be painted.—E.B.M.

**SCOTSMAN IN BUCKSKIN**

By Mae Reed Porter & Odessa Davenport  
(Hastings House, 1963. \$5.95)

Sir William Drummond Stewart is hardly one of the well-known names of the Old West, and the Scottish Archives in Edinburgh would seem an unlikely place in which to look for information about an American Mountain

Man; but "The Scotsman In Buckskin" was an unusual man, and so is his story. Son of a noble Scottish family, an officer of British cavalry, Stewart visited the American West in the 1830s and became a part of the vivid adventure of the fur trade and the western exploration. This book is a product of extensive research developed by sharp writing into a fascinating narrative guaranteed to increase your knowledge and understanding of a colorful era.—E.B.M.

**AIR GUN BATTERIES**

By Eldon G. Wolff  
(Milwaukee Public Museum, 1963. \$0.50)

Advanced collectors, and especially those who specialize in air guns, will appreciate the efforts put into this booklet, which is a companion piece to "Air Guns" by the same author. The many variations of air gun valves and release systems are categorized, described, and illustrated. To those who have his earlier work, this addition to the history of air gun mechanics will be most welcome.—J.R.

**KICKAPOOS**

By A. M. Gibson  
(University of Oklahoma Press, 1963. \$5.95)

This is the 70th volume in the Civilization of the American Indian Series published by the University of Oklahoma. Among the Indian tribes, the Kickapoos are probably best known to the general public as a name on the patent medicines of the 1800's. This book, well documented and factually written goes beyond the popular concept and relates the three century-long struggle of this vin-

dictive tribe to resist the land grabbing of the white man. How they joined the British forces during the Revolution, and how they eventually won a long, drawn-out court fight (aided by two courageous white men) for promised restitution, are only two of the highlights of this book. A worthy addition to any library of western Americana.—J.R.

**NOTED AMERICAN DUELS AND HOSTILE ENCOUNTERS**

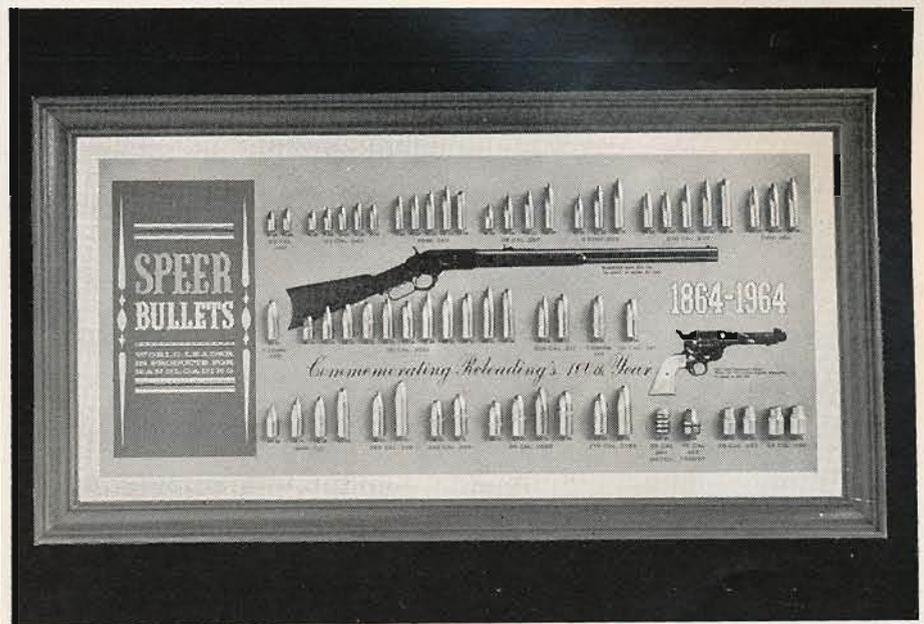
By Hamilton Cochran  
(Chilton Books, Philadelphia, Pa., 1963. \$6.95)

A good many of the duels fought here in the States have become famous (or should I say infamous?), but a great many reported here, are so obscure that reading about them becomes as fascinating as reading one of the current whodunits. Although this book was not written for the gun buff, there is considerable material to be found in the pages that is interesting and, in some instances, so startling that a re-reading appears indicated. And if you do re-read, you'll find that the author has done a fine job researching, and has managed to present the flavor of the time when the Code Duello was the only way to settle a difference of opinion or clear one's good name of an imagined slight or insult.—R.A.S.

**GREAT DAY IN THE WEST**

By Kent Ruth  
(U. of Oklahoma Press, Norman, Oklahoma, 1963. \$12.50)

It is too bad that American history cannot be presented as lively and as interestingly in our schools as this book does. Author Ruth



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has done a commendable piece of work in collecting photographic material about the early places that served settlers in their westward move. The cover hlurb describes this book best: "Forts, posts, and rendezvous beyond the Mississippi" and for the student of American history the book will serve as excellent reference, while the casual reader will gain a new insight into the growth of our country.—R.A.S.

## SHOOTER'S BIBLE

(Stoeger Arms Corp., S. Hackensack, N.J., 55th Edition, 1964, \$2.95)

Greatly revised and revamped, the Shooter's Bible is, as always, well worth the money. As in other years, the Bible is Stoeger's catalog, and this year the editors have added a number of very interesting articles, including a description of the function and aim of the NSSF. Stoeger's added a number of new products, and all of them are fully described in this new edition. A "must" book for the shooter and all hunters, the new Bible will serve you as a reference book for the coming year.—R.A.S.

## THE HUNTER'S COUNSELOR

(Waffen-Frankonia, 1964, \$3.00,  
\$4.50 for Air Mail)

Famed Waffen-Frankonia, Wuerzburg, Western Germany, once again has issued their classic "Der Ratgeber für den Jaeger," or the "Hunter's Counselor." Basically, this is the very handsome catalog of Waffen-Frankonia, and it will reach you complete with English translations and a price list that gives cost of products in U.S. dollars. But it is considerably more than a catalog—

it is a treasured volume crammed full of German hunting lore, facts about European cartridges and guns, about hunting game that most of us have never heard about. Prices are incredibly low, and I recommend the Ratgeber for those long winter evenings when you dream of next year's hunt.—R.A.S.

## CROW AND PIGEON HUNTING

By W. W. Tobin

(Ultra Products, Wilmette, Ill., 1963, \$3.00)

I am all for anything that will induce more people to do more shooting, and certainly crow and pigeon shooting offer thousands of shooters almost unlimited opportunities in a time when game bird and game animal hunting is suffering from the restriction of hunting areas. Also certainly, this little booklet provides some useful information for the novice in these pastimes—information as to the use of decoys, calls, positioning of gunners, et cetera. But \$3.00 seems a pretty high price for a soft-bound 82 page booklet; and when the author recommends trapping pigeons in city areas and then releasing them on farms where some of them can be shot, he is assuming more tolerance on the part of the farmers than I would expect. Most farmers have more pigeons than they want already (if they have any at all); and most of them have their own methods of controlling them; methods seldom including the importation of strangers with guns from the big city. There are better books on crow and pigeon shooting; and better advice than that contained in this one's chapter on baiting and trapping.—E.B.M.

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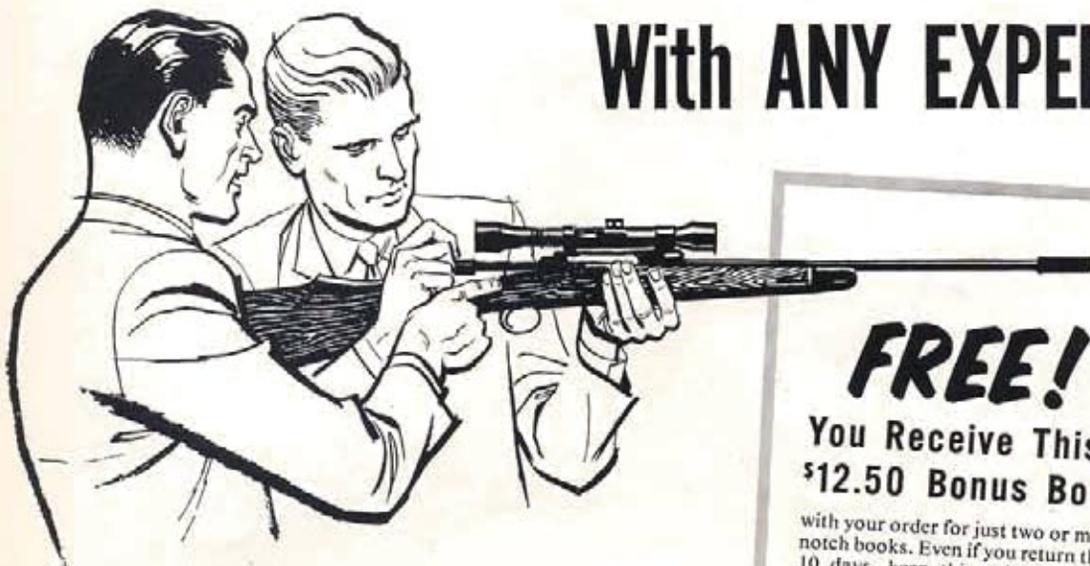
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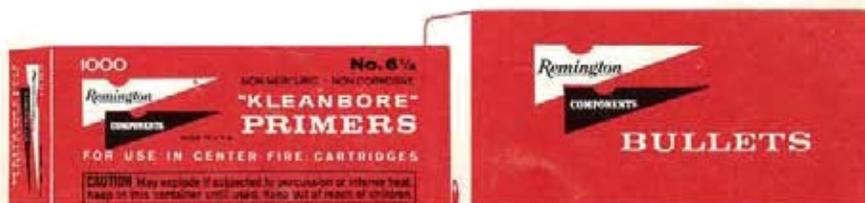


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