

OCTOBER 1959 50c

FINEST IN THE FIREARMS FIELD



# Guns

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# The Gun That Receives Unstinted Praise From Its Severest Critics

## — the BROWNING Double Automatic shotgun

OWNERS ARE, understandably, a gun's severest critics. They know, from actual experience, what a gun can do for them in field or marsh. And, almost without exception, owners are unqualified in their praise and unanimous in their testimony that the Browning Double Automatic shotgun *provides a new kind of shooting pleasure.*

The Double Automatic, you know, is *not* a gun for the multitude. Rather, it meets the needs of sportsmen and sports-women who, in view of today's bag limits, believe light weight, fine balance and fast handling qualities are more important to one's shooting success than additional firepower.

They recognize, in full, the scientifically engineered advantages the Double Automatic offers — exclusive features which not only contribute to better shooting but to less fatigue at the end of a long day's hunt. These features are:

**Lighter weight but with all the recognized advantages of the 12 gauge** — the shorter shot string, heavier pellet concentration, and the flexibility of 60% more load variety than is available in any other gauge. The Double Automatic is made *only* in 12 gauge but in models as light as 6 pounds, which is less than most 20 gauge guns. Who wouldn't prefer the weight of a 20 gauge with the hitability of a 12 gauge!

● **Better balance and handling qualities.** The most compact receiver ever designed in an automatic or repeater type shotgun plus carefully calculated distribution of the recoil mechanism give the Double Automatic the superb balance of a fine "double" gun. Loaded or unloaded, the balance never changes. It is so precise, in fact, that the gun points with the speed and timing one experiences in pointing his own finger, a characteristic so essential to faultless, fast handling.

**Soft cushioned recoil.** Weight reduction without recoil compensation would mean uncomfortable shooting and, in time, poor shooting. In the design of the Double Automatic provision was made for recoil reduction. A radically stronger braking system is utilized, permitting mechanical absorption of much of the recoil energy and thereby noticeably softening the "kick". As a result, its owner will experience unparalleled soft recoil, a feature particularly appealing to the light weight individual.

**Fast and easy loading** — equally convenient for left or right handers, even with heavy gloves. Loading is so fast and convenient one might say the Double Automatic is "never empty". Shooting and loading can be closely coincident. There needn't be any switching of hands or turning the gun over to load. In fact, loading is so simple the Double Automatic can remain at the shoulder, in shooting position. Visually too, one knows instantly how many shells are in the gun.

Without adjustment of any kind the Double Automatic shoots *all* loads, in any combination desired, from the lightest field or target load to and including the heavy 2¾" Magnum.



There are other features too:

A safer safety, equally convenient to right or left hand.

A short, crisp trigger pull — again comparable to that of the fine over-under Superposed.

Barrels are completely interchangeable, in seconds. Merely press down a latch, lift out the barrel, and insert another of different length or choke.

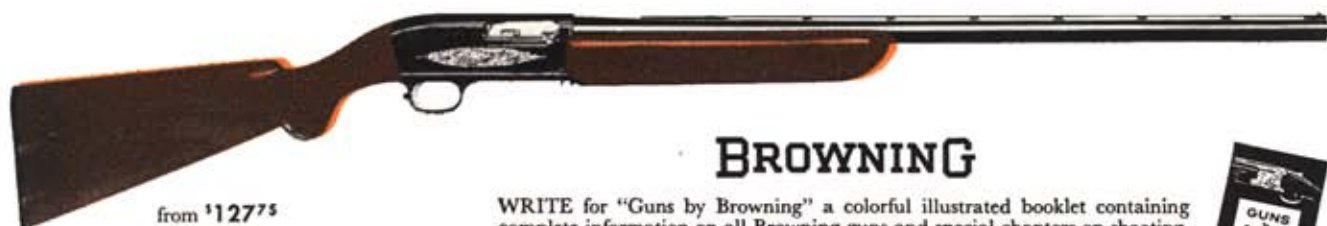
Most hunters do not buy a gun primarily for its appearance, yet owners tell us graceful styling and meticulous workmanship were important motivating factors in their original selection of a Double Automatic.

The precision hairline fitting by Browning gunsmiths, who have true craftsmen's pride in their artistry, is strikingly evident in every Double Automatic. The select French walnut in stock and forearm is *hand-finished* and *hand-checked*. The receiver is *hand-engraved* in delicate patterns which gleam jewel-like against the contrasting background.

For those who may welcome a tasteful escape from the more conventional gun finishes, some models are offered with conservatively dignified colored receivers in Forest Green, Autumn Brown or Satin Gray — all with Silver engraving. Equally attractive is the rich and striking Dragon Black with Gold engraving. The color is infused into the metal proper; it is extremely hard and actually wears longer than more customary finishes.

Yes, traditional Browning attributes are apparent in every Double Automatic, bespeaking the matchless quality upon which Browning's reputation has been so solidly built.

If you are considering a new gun, you owe it to yourself to visit a Browning Dealer and examine the Double Automatic. *It affords an entirely new basis upon which to judge a gun.*



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By **GENERAL LUIS CUETO RAMIREZ**

*Chief of Mexican Federal Police*

**I**N MY CAREER I have become familiar with many weapons. The Federal Police carry modern double action .38 Special revolvers. In years gone by, *Federales* carried handsomely engraved pistols with ivory grips. Old Colts and Smith & Wessons, if the grips bear the eagle and serpent national symbol of Mexico, may once have been Federal Police revolvers. Today, the Single Action in .38 is popular with Mexican civilians, and many government people still carry them in the military caliber of .45. (At left, above, Sr. Guillermo Obregon of the Federation of Charros presents Colt .45 Single Action 7½" to *Gral* Cueto, Chief of Police of the government of Pres. Lopez Mateos.)

## MY FAVORITE GUN



BY **REX ALLEN**

*"Frontier Doctor" TV*

**M**Y FAVORITE is a .44 cap-and-ball Remington worn by my grandfather, Joe Clark, in the heyday of such gunfighters as Doc Holliday, Wyatt Earp, and Johnny Ringo. Grandpa was well acquainted with the aforementioned gentlemen. He owned a ranch near Willcox and often made the 40-mile ride into

Tombstone to sell cattle. The gun is still in fine working order and groups very well. Other guns in my collection are a half dozen Colt Peacemakers, including the pair of silver mounted 45s I use in my rodeo act; several shotguns for ducks and upland game like dove and pheasant; and big bore rifles for deer, bear or javelina. I enjoy a good old fashioned 'possum hunt most of all. But what I am really looking for is a .45 that shoots forty-five times. Contrary to what you may have seen in the movies, these dang things do have to be reloaded—again, and again, and again...



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### THE COVER

Combining combat fire problems with all-around marksmanship, the Infantry Trophy Match is a test of coolness as well as of skill and is one of the most exciting events in rifle match competition. This story is a first-hand account carrying much of that excitement.

# Guns

FINEST IN THE FIREARMS FIELD

OCTOBER, 1959

VOL. V, NO. 10-58

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Whether you're a side-hill partridge shooter or a frost-nipped rabbit hunter, you'll instantly feel the amazing difference built into the new Featherweight Winchester shotguns. Pounds lighter, these fine shotguns carry lighter, point faster and truer and bear all of the fast gun-handling characteristics so prized by the upland shooter.

Best of all, the use of new miracle metals has made this weight reduction possible without any reduction in the durability, safety and beauty that have always made a Winchester stand out. So match your modern light boots and hunting clothes with a Winchester Featherweight shotgun. Then, when that pheasant cackles out ahead of you just before quitting time, you're on him just as swiftly and smoothly as you would have been the first thing in the morning. Go to



your dealer and *feel* the difference—Model 50 automatic, \$144.95;\* Model 12 pump, \$94.95.\*

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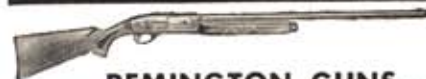
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**Elmer Keith**  
**says...**

### Echo Model C Loading Press

E. C. Herkner Co., Box 5007, Boise, Idaho, now furnish their latest Model C, bench loading press with one shell holder for \$22.50. This is a C type bench press of good design, reasonably light weight, and small size, designed for the man who has a reasonable amount of loading to do and needs a press powerful enough for full-length case resizing and accurate bullet seating. The press is made from a heavy casting and is well finished. The lever can be changed over in a few minutes to operate on the up stroke or on the down stroke as desired by the operator. The press takes the standard 7/8" loading dies as now made by about all companies. It is also machined to take an automatic primer feed if desired.

The shell holder proper is detachable from the shell holder ram, and screws into place on the upper end of the ram, making quick change of the shell holder from one caliber to another a very simple matter. This new Echo shell holder is furnished in the various sizes, with a small C type wrench to remove and replace shell holders on top of the ram at will. It should make an excellent loading press for all revolver sizes, and we tested this one also with .30-06 dies and resized a lot of different makes of brass. Shell holder and sizing and loading dies are held in perfect alignment on the tool tested, something we have not always found to be true in testing low priced bench presses.

We rate this an excellent tool for the money. It will do a first class reloading job, is small enough to be packed up and moved from place to place easily, takes up but little room.

### Convex Or Flat-Faced Primers

Many reloading tools have shallow cup-shaped primer seaters that leave the face of the seated primer convex. Other primer seating punches are perfectly flat faced and leave the seated primer flat surfaced. Primers seated with some of the cup-shaped seaters will often have the primer slightly distorted, extremely convex in shape. This often makes it difficult to seat some makes of primers flush with or below the face of the shell head. For this reason, we much prefer flat-faced primer seaters that leave the new primer or Berdan cap perfectly flat on the face and either flush with or slightly below the face of the case head.

This is especially necessary in all revolvers and double rifles, if you would keep your primers from rubbing the recoil shield of the revolver or the standing breech of the double rifle as the gun is closed on a round. Firing pins are usually loose in double rifles, though some are spring loaded, and with

some rifles the pins may touch the primer as the gun is closed. It is better to have a flat primer for all such arms than the convex shaped primer.

All primers must be seated firmly and with the front edge of the cup completely down in the bottom of the primer pocket of the case, so there can be no cushioning effect when the firing pin or striker hits the primer. If the firing pin must also fully seat the primer when it strikes, then the blow is cushioned and improper ignition often occurs. It takes just so much of a blow to properly ignite a primer and you want them full seated. By the same token, revolver cases that are not full length resized and fairly loose in the revolver chambers, can cause the same effect. If the case is slightly tight in the chamber and is not fully seated, when the firing pin strikes, it must drive the case forward until the rim hits the end of the chamber, thus cushioning the blow of the firing pin.

Primers should never be distorted or squashed out of shape in seating. To do so crushes the priming mixture and loosens it between firing pin and anvil. This is important with our American primers which contain the anvil, and even more so in the Berdan-type cases where the anvil is contained in the center of the primer pocket. Never shoot ammunition with the primer protruding beyond flush with the face of the case head, as it can be dangerous. Proper seating of primers is a very important step in all hand loading.

### Sterling Silver Grips

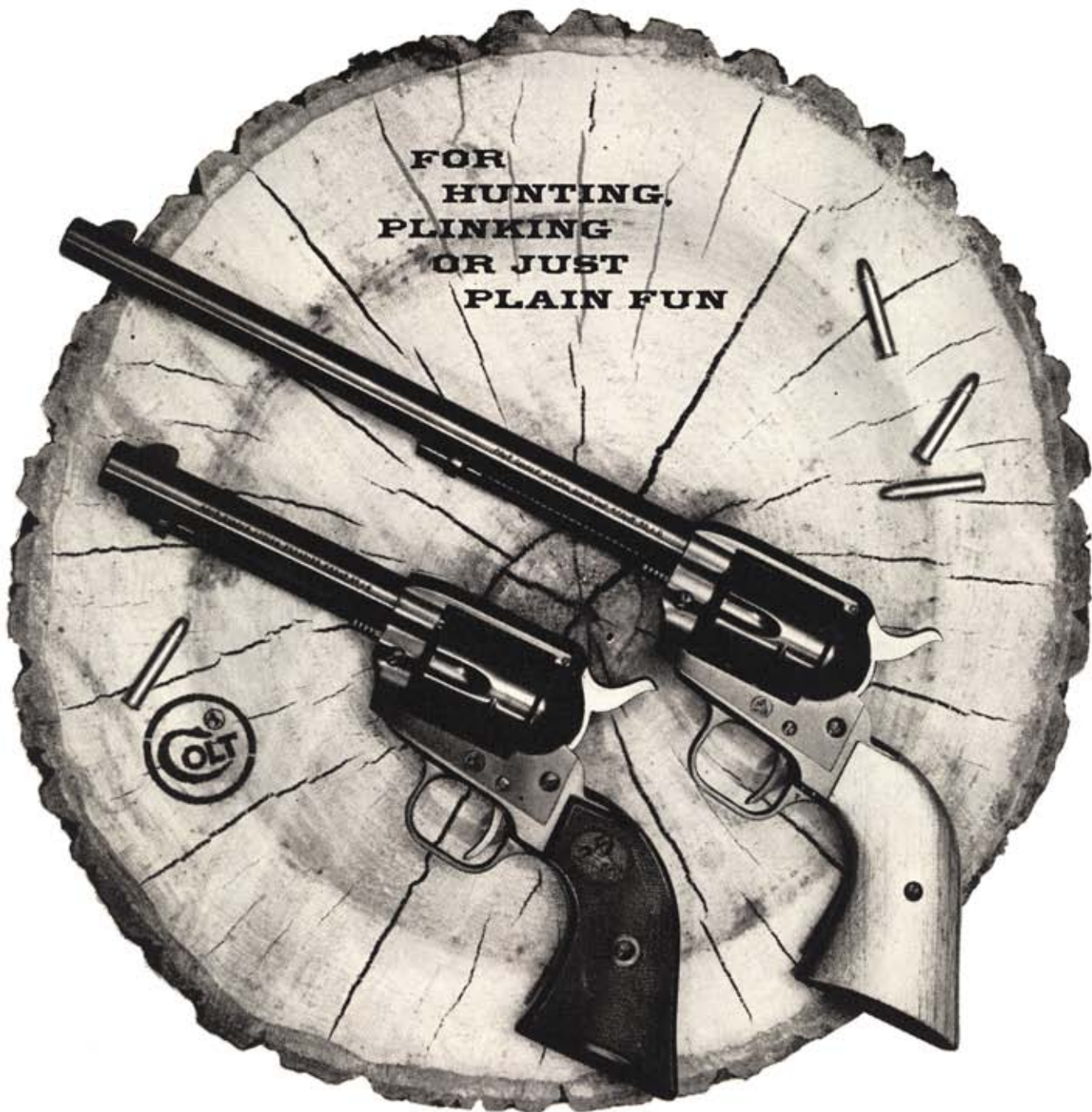
We have had inquiries about sterling silver revolver and pistol grips. These are naturally expensive, but can be had from Edward H. Bolin Co. to order and for most guns. They can be had plain or engraved to order, and also with gold animal figures or initials overlaid on the silver. If you have a long pocket book, the sky is the limit as to ornamentation, for they can also be had set with precious stones to order. Prices for engraved models start at about \$75. They can be had in models to fit any size hand, plain or with elaborate engraving or gold bas-relief. Bolin also makes and carves pearl and ivory grips to order and inlay same with gold or silver to order. Engraving is all deep hand work and the grips are made heavy enough that they will not dent or bend. Write the Edward H. Bolin Co., 931 North Highland Ave., Hollywood 38, Calif., for estimates.

### Fulcrum Gun and Reel Grease

The Fulcrum Oil Co. of Franklin, Penna., now puts out a very high grade gun and reel (Continued on page 54)



**FOR  
HUNTING,  
PLINKING  
OR JUST  
PLAIN FUN**



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NOW MORE FIREPOWER AND GREATER ACCURACY with both the Buntline Scout and the Frontier Scout chambered for new .22 Magnum ammunition. The Buntline Scout, only \$59.50, has an over all length of 14 $\frac{1}{4}$ " and a 9 $\frac{1}{2}$ " barrel for perfect heft and classic elegance. The Colt Single Action Frontier Scout, only \$49.50, has the same superb balance and feel as the heavier Peacemaker. Both guns are deadly accurate, and can be bought in the regular chambering—to fire .22 Short, .22 Long and .22 Long Rifle. Ask your authorized Colt Dealer about these fine handguns today. (Ask him, too, about the famous Colteer Rifle, and Officers' Model Match, both chambered for .22 Magnum, W. M. R. ammunition as well as the regular chambering.)





## reloading is **100% SAFE** for anyone with the new **SUPER SPEEDER 400**

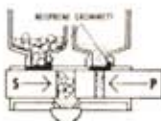
Foolproof reloading means safe reloading . . . even for amateurs. Safety is of prime concern to everyone . . . including the experts. That's why the M.E.C. Super Speeder 400 was designed with so many built-in safety features. In fact, these very same features make the 400 so easy-to-use, and also make it possible to reload faster and more accurately without the danger of any mishap.

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complete

The M.E.C. Super Speeder 400 is available in any gauge, and comes completely assembled, tested and ready-to-use. Ask to try one at your dealer's or write



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## CROSSFIRE

### Genius?

Regarding the June, 1959, issue: there must be a genius in your make-up department who saw to it that "Rifles at 2100 Paces," began on page 21. Or did said genius change the title and thus round off the range to "2100 paces" after it had been determined that the story would begin on page 21?

However it happened, the perpetrator deserves a suitable reward—maybe even a gold-plated pica scale, engraved with a pair of crossed rifles.

Eugene P. Hanafin Jr.  
San Bernardino, California

### TV Programs Questioned

The television program, "Highway Patrol," presents a false and dangerous picture of the armed citizen. Shows that present an armed citizen present him as a bungling novice who knows very little about firearms and is more of a danger to himself and his friends than to the criminal.

This is a false picture and is dangerous in that it is false propaganda presented to the public in a way to encourage anti-firearms legislation among the uninformed.

C. L. Crapson, Capt., USA  
San Francisco, Calif.

I began writing this letter right after watching Paul Coates' "Confidential File" program on television. This program presented the "cases" of some people against guns in the home, in the store or place of business, and for private citizens in general. The narrator brought up several people as witnesses, including one police officer. These people, with the exception of the police officer, told of mishaps with firearms. The whole program was directed as an attack against firearms for private citizens. The police-man's views were that guns had no place in the home, in the store, and in the hands of any private citizen.

What gets me is that people are killed in horrifying numbers each year by cars, but no one makes an effort to ban cars! Yet, whenever a person is shot accidentally or on purpose, the papers play it up and, all too often, scream for anti-gun legislation.

America has long stood for "Life, Liberty, and the Pursuit of Happiness." How then, can we allow one of our oldest heritages to be destroyed, as some few would have it?

In my opinion, if programs such as the one I mentioned are allowed to continue without opposition, the American sportsman may soon find himself fighting a losing battle. If laws are instituted prohibiting pistols, don't think that it will end there. Next to go would be the rifles and shotguns. Once a law such as the Sullivan Law is introduced, it is hard as the devil to get rid of.

Howard Conselyea  
Norfolk, Virginia

### Pan-Am Shooters Please Note

"**S**ALUDOS, AMIGOS," WE SAY as GUNS greets the shooting competitors to the Pan American Games, as well as the many other friends from the sports worlds of Latin America. It is with a sense of honor, gratitude and pride that the editors of GUNS, Bev Mann and Bill Edwards, were appointed members of the Pan American Games Shooting Committee for Chicago. Our role has been, we felt, that of reporters—to tell you who has done what and how it was done. And done it is—creation of America's newest shooting facility, a credit to the men of Waukegan and Lake County who inspired and worked and built it; a credit to the men who "bossed" the job—Shooting Committee people and Army men on loan; but most of all is the new International-style range a credit to the shooters of Chicagoland who will use it after the Games are over. More than any other facility created to enable Chicagoland to host the Third Pan American Games, the Waukegan International Range will remain to remind "Norteamericanos" of the international ties of friendship, mutual regard and obligation, which bind us to our western hemisphere neighbors. *Listo, punto, juego! Bien tire!*

GUNS' Publisher & Staff  
Skokie, Illinois

### We Like This Letter

I'd like to congratulate you upon the increasing excellence of GUNS. I took another gun magazine for some 15 years, and many outdoor magazines, and the last issue of GUNS must be termed one of the best gun-magazine issues I ever read—which is *partly strong language* from a conservative Canadian.

No ulterior motive in this, either; I haven't anything to sell; I don't want nuthin'; I just plumb enjoyed that last issue especially, and its predecessors almost as much.

Bert Stent  
Canada

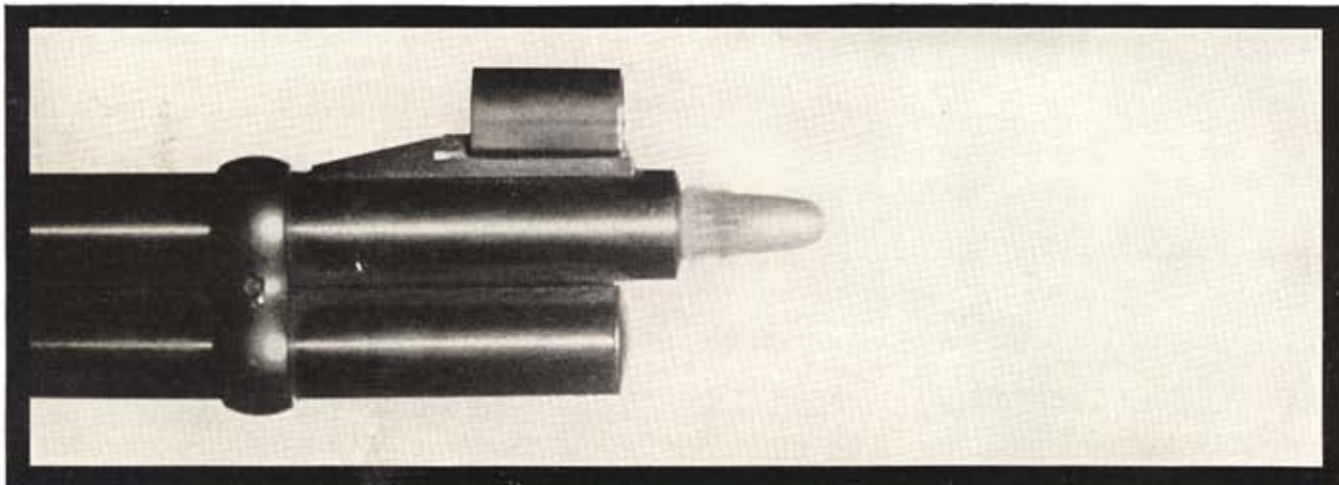
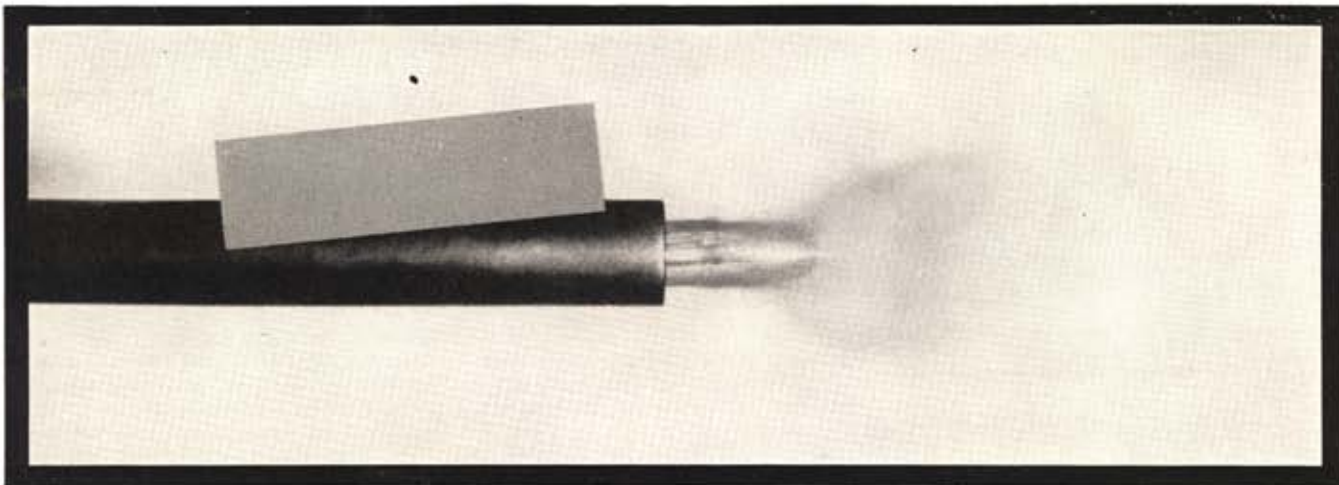
### No Dove Season?

I am diligently trying to combat the pernicious efforts of persons and groups who are trying to get dove shooting legislated out of existence in California. Jobson's article in May "Sports Afield" excellently covers the situation here; a local situation now, but gunners everywhere should take notice since, if it happens in California, do-gooders in other states will take up the cudgels. Perhaps GUNS should lend its voice to the battle?

Col. George W. Busbey  
Grass Valley, California

GUNS hereby lends its voice. California shooters please note.—Editors.





Unretouched photos taken by P. H. White Laboratory, Bel Air, Md.

## Proof—in 2 millionths of a second!

The amazing unretouched photos above—shot at two millionths of a second, just as the 30-30 bullets were emerging from the barrels—show one reason why Marlin's exclusive Micro-Groove Rifling\* means an average 20-25% increase in accuracy.

Notice the little cloud ahead of the bullet on top. That's gas, and it "leaked" around the bullet fired from a conventional barrel. Escaping gas can "flip" the bullet as it leaves the

barrel, greatly reducing accuracy.

Now look at the bullet at the bottom. There's almost no gas ahead of it—proof that Micro-Groove Rifling cuts down on gas leakage and gives higher, more uniform muzzle velocities and flatter trajectories.

Notice, too, that with Micro-Groove Rifling there are 16 *shallow* grooves in the bullet's jacket, instead of four to six *deep* ones as with conventional rifling. Micro-Groove

Rifling's light grip doesn't pile up metal ridges that destroy balance. And Micro-Groove Rifling makes all Marlin rifle barrels easier to keep clean.

Whether you gun for trophies, 10-rings or tin cans, there's a Marlin model for you. Ask your gun dealer to help you choose—and be sure to see the famous Marlin Model 336 Carbine illustrated below. It's a real meat-in-the-freezer game-getter.

## Marlin



**MODEL 336 CARBINE:** In cal. 30-30, .32 Spl. and .35; also straight-grip "Texan" model in 30-30 and .35 cal. \$80.00 without scope—down payment (Marlin Pay-Later Plan) **\$8.00.**

**OTHER MARLIN FIREARMS** include .22 cal. lever-action, bolt-action and semi-automatic models, varmint rifles in .219 and new .22 Magnum calibers, and high-power models in bolt-action and lever-action models, all with exclusive Marlin Micro-Groove Rifling. Also Marlin bolt-action shotguns, and America's only over-and-under shotgun, in all standard gauges.

\*Patent applied for.

Price subject to change without notice.

**Marlin Firearms Company**  
New Haven, Conn.

K-109

Please send me the Marlin illustrated catalog, 24 page Target & Game Record Book, plus a Home and Field Rustopper Kit. 25¢ enclosed for handling and mailing.

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### Shooting Test of the Armalite AR-15

WHEN YOU SHOOT a full clip of 25 shots in one blasting, ripping burst at a silhouette target 75 feet away and the shots don't wander outside of a three foot circle the first time around, even the blasé rifleman is aware that he has had a new experience. New, and "an experience," sum up the feeling you get in shooting the Armalite AR-15, the newest infantry shoulder rifle available to NATO and Allied powers.



Full auto burst with AR-15 gives no muzzle rise in straight-arm hold.

Little brother to the standard-caliber .308 Armalite AR-10, the AR-15 is not lacking in punch despite its diminutive .22 caliber bore. The hot .222 Remington Special or .224 Winchester E2 Military round (the two are similar except the Winchester is 53 grains, while the Remington load for Armalite is 55 grains) packs individual and cumulative punch on the front end, with darn little recoil or kick on the hind end. In machine firing, AR-15 is so easy to control that a child could shoot it fairly effectively! Part of the secret is the light load, a bottleneck rimless .22 "varmint" round scoring 3275 feet per second from a 20" barrel, measured at 15'—a muzzle velocity of 3300 f.p.s. Specifically, the test ammunition of potent .224 Winchester E2 caliber, furnished through the kind offices of Bill Kelty, aggressive sales chief at WRACO, registered 3249 f.p.s., equalling an MV of 3274 f.p.s.; but the minor to negligible kick is hardly due to this test lot being "underpowered." Aside from the holes dug in the sandy backstop, which showed plenty of punch, a short-range test in which one of the tiny jacketed slugs blasted a half-inch crater in a steel slab proved it to have plenty of power. Paper figures reveal about 1150 foot/pounds muzzle energy for this load. This is perhaps not spectacular, but consider that three shots from this little gun can be placed effectively where one at the most could be fired without going off the target from a .308-NATO caliber gun. To gain some idea of AR-15's power, consider what one of those .222s does to a woodchuck at 200 yards—and then equate that with the effect on an enemy soldier hit many times in rapid succession.

But such sanguinary considerations were far from our thoughts as we tried out our test sample of AR-15. It was one of those nice low number jobs I like to get, as Paul Cleveland at the Hagerstown, Maryland of-

fices of the company obligingly sent me serial number 000001. It, like the bigger, bulkier AR-10, is manufactured for the owners, Fairchild Engine & Airplane Co., at the Netherlands Government factory of Artillerie-Inrichtingen, Zaandam. Little No. 000001 made an instant hit with everyone who saw her. I could hardly convince some that it wasn't a toy. But the combination of grayed aluminum alloy and brownish plastic-and-fiberglass proved to be anything but a toy.

With the Remington Special .222 ammo sent by Cleveland, plus a libation of .224 Winchester Military, we journeyed to the range. Officiating was Harry E. Lichter, curator of the State Historical Museum collections in Wisconsin. The nearby sandpit soon echoed to the ripping sputter of AR-15. Unfortunately, only a short range was available for initial firing, so we contented ourselves with function firing and an attempt to gain some idea of recoil control. When husky Allan G. Skinner, collegian of Stevens Point, Wisconsin, let off a burst, the gun seemed to thrust him straight back. Developing a controlling hold of these burp guns is quite a trick, and does not come overnight to the unskilled shooter. Conversely, Lichter's 87-pound son David found AR-15 easy to handle, not objectionable in recoil on single shots, but he did not try it full auto.

Later tests the following week came under the limelight of a hot sunny day with cameraman Bob Dienethal, of the Carson Company, Florida movie and TV film producers, doing the honors. We were especially anxious to obtain ultra-slow motion views of machine gun shoulder firing to study gun and shooter in action. We learned some time ago that Springfield Armory had a whole drawer full of slow motion dynamic studies of timing in the M-14 full auto firing cycle, but that nobody (at least this side of the Iron Curtain) had ever embarked on a design program by first studying the shooter and his problems. It struck us as the essence of auto weapons design that an understanding of shooting should enter into the picture, and we were anxious to learn from AR-15's first film debut what there might be to learn.

After jouncing down a brick rubble incline guaranteed to break springs, we stopped the car on the floor of the clay pit used for



Army at Ft. Ord tests bipod and tight hold trying for accuracy.



Deerfield, Ill., area police training shooting. We set up Colt silhouette targets at 50 long paces and commenced to fire away, with Dienethal clicking the camera. His sense of posing was good and we got some excellent footage, some of it duplicating to prove that what happened in the first volley also happened in the second.

What happened was: exactly, nothing! No muzzle rise, no objectionable climb, no sweat at all (except from the sun). One sequence, in which you can count 25 shell cases leisurely climbing out of the ejection port in a ladder of shiny brass curving to the ground, reveals the gun muzzle absolutely stationary against the background scenery. The shooter weighed 220 pounds—but the gun was not jammed tightly against the shoulder. Instead, as is evident in the film, the front hand is pushing tensely away from the shoulder, and the pistol grip is held hard back, stressing the gun in a dynamic cradle of the two arms.

Unfortunately, the peep and post sights are not well designed for volley fire. We shook up the designers and agents for the gun in Holland and Belgium by criticizing the



Young Lichter leans into AR-15 for semi-auto firing without using clip.

sights—but a five-shot-burst group inside three inches at 25 yards revealed that the gun had accuracy, and the holding had possibilities.

With the gun entirely unsupported by the shoulder, and the head tilted to one side, a sequence was shot over the gun's sights as a volley went targetwards. Remarkably little muzzle displacement was noticed, even in this insecure shooting pose. The sights were not regulated for so short a range as 25 yards, but the shooting on full automatic only was a realistic enactment of the situation encountered in combat when defending infantry are facing a charge.

To simulate a charge of our own, we advanced at a run from 50 yards to 25 yards, triggering two and three shot bursts to empty the clip. The way the dirt kicked up in the clay bank, plus our own "calling of shots" with eyes wide open, suggests that a wave of assault troops so armed would be invulnerable behind their fire screen. We are told that Bundeswehr officers in tests in Germany recently were so impressed they at once classified the gun "Secret." (Leaving gun cranks no choice but to turn to GUNS Magazine for the inside story on the latest arms developments.) Dienethal's son, weighing about 112 pounds, fired full-auto bursts from AR-15 with no discomfort, but he was pushed back—in a straight line, characteristically.

In the sandpit tests, which were concluded  
(Continued on page 42)



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**\$112.50** Savage 110-MC illustrated

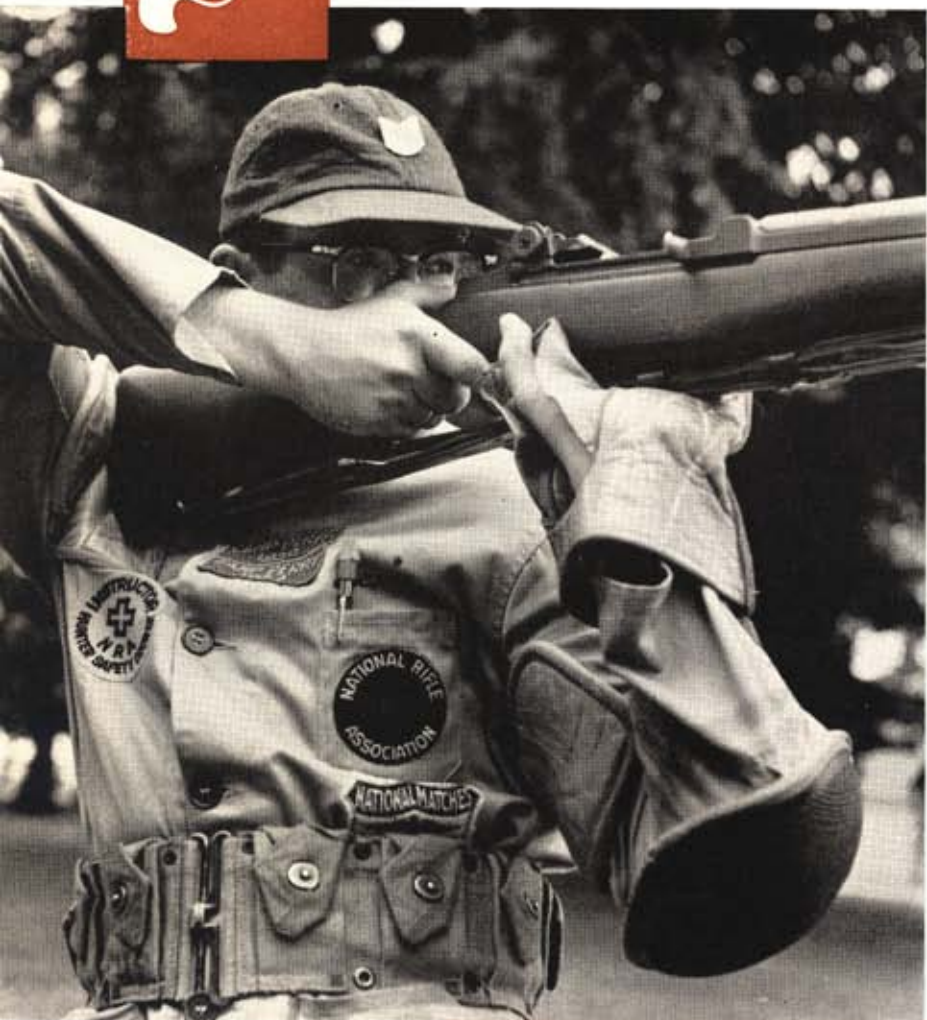
MODEL

# 110

# Savage®







# CAMP PERRY'S "MAD MINUTE"

By Lt. JOHN S. FLANNERY, AFRO  
*Member 1958 Utah National Guard Team*

M/Sgt. Charles Davis of Utah ANG finds reversed offhand hold is good group tightener.



Last Army team to take Infantry Trophy (left) included coach Capt. Foster with binocs, Sgt. Fitzpatrick, CWO Atkins, Capt. Brannon; (standing) SFC Tuck, Capt. Parks, Sgts. Eysel and Evans.

Rapid fire rig includes M1 rifle, Ray-Bans, binocs for spotting, and jacket.





Mad Minute rifleman slams shots down range, could hold left hand tighter for better muzzle control against kick. Right, speed shoot demands skill in handling ammo clips.

**MOST EXCITING MATCH AT CAMP PERRY  
IS INFANTRY TROPHY EVENT, WHEN TEAM  
FIRES 384 ROUNDS IN 50-SECOND BLASTS  
AT RANGES FROM 200 TO 600 YARDS**



**S**IX RIFLEMEN flop into prone position on the Camp Perry firing line. Two other men are positioned just behind them, kneeling, with binocs raised. Eight silhouette targets whip into view 600 yards to the front, and . . . hell breaks loose!

In 50 seconds, the silhouettes vanish, the bedlam ceases. Shooters roll over on their backs and take much-needed deep breaths. Empty cartridge cases litter the ground. This is the Infantry Trophy Match, "The Mad Minute."

The first competition for the Infantry Trophy was fired in 1923. In 1936, the match became an official part of the National Trophy Matches. It is the final proof of the capabilities of an individual using the Service Rifle for its designed purposes . . . firepower and accuracy. The idea is to fire as many accurate shots as possible in the time allotted.

The course of fire includes four 50-second stages, beginning at 600 yards, moving up to 500, then to 300 and, finally, to 200 yards. The 600 yard stage is shot from the prone position, the 500 yard from prone, kneeling, or sitting, the 300 yard from sitting or kneeling, and the 200 yard offhand.

Just prior to the 600 yard stage, the team captain draws 384 rounds of ammunition in eight round clips. These 48 M-1 clips are his allotment for the match and can be used in any manner he sees fit. If he wants to let his team machine-gun all at 600 yards, it's his privilege.



Lee Robertson, reversed-hand innovator, of Utah Fish & Game Dept., smokes M-1 sights.





Robertson, who "imported" reversed hold to Utah, dons many-patched shooting coat denoting competitive success. Seated, M/Sgt. Davis leans forward, elbows inside knees.

He knows, however, that he will receive four points for each hit at 600, three points for each at 500, two points for all 300 yard hits and a point each for the offhand hits at 200 yards.

In addition, and here's the crazy part of the Infantry Trophy Shoot, he will receive a bonus—the square of the number of targets containing six or more hits each.

Eight targets are used, although there are only six firing members to a team. This allows a target per man, plus two bonus targets. Ordinarily, the coach employs a firing system to insure the required minimum number of hits on each of the eight targets. He may have his men put five shots in the bonus target and ten each in their own targets.

The six firers are divided into two firing units; shooters (from left to right) 1, 2, and 3 in one unit, and shooters 4, 5, and 6 in the second unit. One unit is controlled by the coach, the other by the captain, both stationed behind the inside men. The fastest firer in the first unit should be number three; in the second unit, number four. This places these two men in the best position to shift, under supervision, to other targets if teammates' rifles have malfunctions. Coach and captain correct the fire of their units by watching the fire of these two men.

There are no alibis in the Infantry Trophy Match. Therefore, with time of the essence, each shooter practicing for



On line-up shooters rest, try to figure wind changes down range which may blow bullets off in 600 yard shoot. Perry's ranges are tricky.

the "Mad Minute" should learn to apply immediate action in the event of a misfire.

Equipment for the Infantry Trophy Match is the service rifle. It has been suggested that a second rifle be reserved for this match, since the continuous rapid-fire affects the bedding of the rifle (assuming it is not glass-bedded) and brings about a loss of accuracy. Too, the screws, handguards, and other parts come (Continued on page 38)



# THEY "ROLLED THEIR OWN" IN CUBA

Commandante Bill Morgan, Cuban insurgent from Toledo, had men build Winchester into burp guns.



**CUBAN CHOPPER WAS ASSEMBLY OF WINCHESTER RIFLE, M-1 CARBINE, AND HAND-MADE PARTS IN THREE OPTIONAL CALIBERS.**

PRODUCT OF CUBAN ingenuity and Yankee drive is the "Cuban Winchester," emergency weapon of the revolution. Commandante William Morgan, an American fighting with the Revolutionary Army, thought up the idea in searching for greater firepower. Together with Captain Camacho, grizzled old gunsmith who had fought in the Spanish Civil War, the recent Venezuelan fracas and other South American scrapes, they put together 10 of the conglomerate arms pictured—prize creation of Camacho's machine shop in the hills which also turned out grenades, machine guns, home-made cannon and anti-tank mines. It took three or four men about two weeks to complete one gun. In this little gem, the slide, recoil and trigger mechanism are a blending of M-1 Carbine and handmade parts inside a Winchester .351 Self-Loading frame. The stock is whittled out by hand. Rebores interchangeable barrels allowed Morgan's men to fire .45, 9mm, or .30 Carbine ammo, depending on what was for supper that night. Ammo capacity depended on the type of magazine used: either altered Star pistol clips or a drum.

According to Morgan, the short barrel length limited accuracy to "about 25 yards. However, it threw enough lead to allow us to even up the odds a little, as well as give confidence to the men," the 30-year old ex-paratrooper told me. Morgan's combat experience included a world wide assortment of weapons, but he prefers the British Sten or improved Sterling submachine guns. He described the British weapons as having less recoil and weight yet a greater effective range than the American Thompson or M3 grease gun. "Furthermore," he emphasized, "weight difference between 9 mm ammo and .45 makes a hell of a difference in favor of the 9mm when you're off on a 40 mile hike in the Cuban backwoods."

By ROBERT K. BROWN



Morgan's lieutenant holds '07 rifle with pistol grip, 35-shot drum clip.





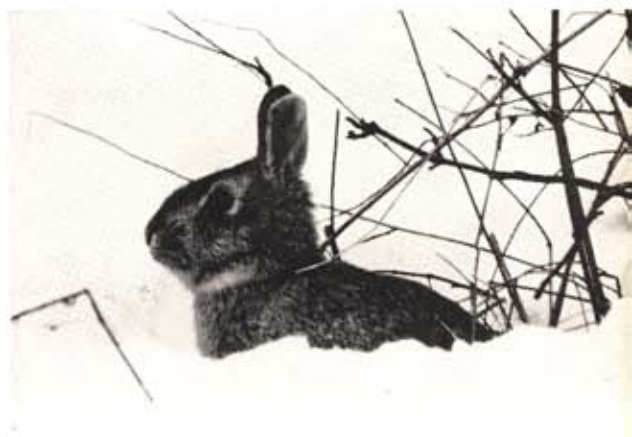
## Don't Miss This Most-Shot-At Target...

Same guns as are used for quail Vinson recommends for bunnies. Ranges are always short, usually under 25 yards when chased.

By CARLOS VINSON

**M**ORE HUNTERS fire more shots (rifle *and* shotgun —yes, *and* pistol) at rabbits each year than at any other game target. Bunny and jack, the rabbit furnishes more top-drawer shooting fun, year in and year out, than all the other game animals put together. And, without upsetting the statistics too much, you could include birds. It wouldn't be too far-fetched an inclusion, at that. Rabbits can't fly high, but they can sure fly at ground level! I've seen 'em harder to hit than a jet fighter.

Because so many people hunt rabbits (and, let's face it, because so many people are lazy), people are always saying, "Oh, rabbits are about shot out, in my area. Hardly worth hunting." Nine times out of ten, it ain't so. You know what they say about rabbits: they're terrific at multiplication. . . . And there's another thing, too: rabbits are not necessarily the "dumb bunnies" that you may think them. If you can't find them—well, like the feller



said, you got to be smarter'n the rabbit! They're there, all right, if you look in the right places.

Last January, the word was out around my home town of McMinnville, Tennessee, that the cottontails were "about all shot out." Nobody was hunting rabbits; everybody believed the rumor. . . . Driving home from town one night, I counted fourteen cottontails crossing the road ahead of my car. In ten miles, that's not a bad count. It started me



# IF YOU DON'T GO RABBIT HUNTING THIS FALL YOU'LL BE MISSING YOUR SHARE OF FUN OFFERED BY OUR NO. 1 GAME TARGET

thinking. . . . Two nights later, snow fell. Cottontail tracks were everywhere. Judging by the tracks, three or four of them held a picnic in my backyard! . . . Couple of days later, I jumped five bunnies out of one wild honeysuckle thicket while helping one of my pointers run down a winged bobwhite.

Well, I can take a hint when the roof falls on me. That night, I phoned Fred and Waymon Cooper. Father and son, these two run a dairy farm and operate a dog kennel as sidelines to hunting. They're good farmers, and good kennelmen, too; but following son Waymon's beagle hounds after rabbits is more fun than money.

"Rabbits?!" says Fred, via the telephone. "But the rabbits are all shot out! Too many hunters—snow—cover all beat down—where we gonna find rabbits?"

So I stuck my neck out and said, "Leave that to me!" and the date was made. It wasn't over-confidence; not really. I spent a good part of the night remembering those fourteen rabbits, and those five rabbits, and all those tracks, and trying *not* to remember that a lot of hunters said there were no rabbits; but I was nervous when Fred and Waymon pulled into my driveway bright and early next morning and said, "Where we gonna hunt 'em?" I said, "Several places," and hoped it wouldn't be too many.

Our first stop was near the half-acre wild honeysuckle and blackberry brier thicket out of which I had bounced five cottontails a few days earlier. This jungle is on a 240 acre abandoned farm about two miles from my home, and there was more of the same type of thickets in the same general area. My idea was to concentrate on these thickets, overhanging stream and ditch banks, brush piles, and old abandoned farm buildings. These are the places cottontails normally hide out in during the latter part of the season. Quite often, when most hunters think there's no longer any worthwhile number of cottontails left to hunt, there's still plenty of them in such places. Like I said, people are lazy. They don't care about bouncing over those rough back roads and busting through those thorny

(Continued on page 51)



South end of four-legged "upland game" is target for load of 6s or 7 1/2s in 20 ga.



Fred (Browning, 1) and son Waymon Cooper (with Rem. 58) compare notes on kills, as beagles get rewarding sniffs.



On deep snow old cottontail may have advantage over dog because of weight. Rabbit's furred paws spread, give him power to leap on soft snow top while heavier hound sinks belly-deep.



Remington's 760 pump .280 plus best of optical gear won't get deer unless you can stalk close or get them to come up to you.



# DEER CALLING FOR SANER SHOOTING

**CALLS ADD A NEW SKILL, NEW THRILL TO DEER HUNTING, BRING  
GAME IN FOR CLEAN KILLS, REDUCE NEED FOR LONG  
RUNNING SHOTS THAT LEAVE WOUNDED GAME**

By **RUSSELL TINSLEY**



Doe watches warily for sudden danger as Tinsley toots call.

**I**T WAS NEARING SUNDOWN as I headed into the kind of deer country that is home to me—small hills sprinkled with mesquite and oak trees and profuse bee brush. This was the Edwards Plateau of Texas; that belt of hilly country snaking up the heart of the state. There are more whitetail deer concentrated in this area north of San Antonio than any other comparable region in Texas.

I was following a fenceline that separated two cow pastures when, shortly, I came to a brush-covered knoll which commanded an obstructed view of a prairie stretching off to the east. It was a nearly perfect spot. I could watch lots of countryside; there was ample brush for concealment; the sun was at my back and wouldn't blind me; and a faint breeze was blowing to my face so that no sensitive deer noses could detect my presence.

Crouching down between two clumps of brush, I pulled a plastic game call from my pocket. With the other arm, I tilted my cap back and blotted the sweat along my brow with my shirt sleeve. It was a hot September afternoon. The opening of the deer season was almost two months away. But I wasn't hunting. This was strictly an experimental trial, to satisfy my own curiosity. Anyway, Texas is one of the few states where it is illegal



to hunt deer with the aid of a call. (Check your own state.)

I settled the call confidently between my lips. For two weeks I had been practicing at home until I figured I had the tone down pat. Then I went to work. It was a bleating, pleading cry, the kind of a noise you'd expect from a fawn that became separated from its mother or got caught in a fence.

Every few moments I'd pause to scrutinize the prairie intently. After roughly five minutes, I spied movement on the far side of the clearing. Momentarily, a caramel-colored doe trotted into the open, her ears poised alertly. I kept beckoning, begging, with a soft, muffled cry.

The doe ran to the base of the knoll before halting. She snorted belligerently.

I kept calling and scanning the perimeter of the prairie. The curious doe trotted back and forth, searching for the source of the cry, but she refused to come any closer. In about fifteen minutes I decided to move. When I stood up, the doe turned frantically and scampered into the brush, her white tail betraying every jump.

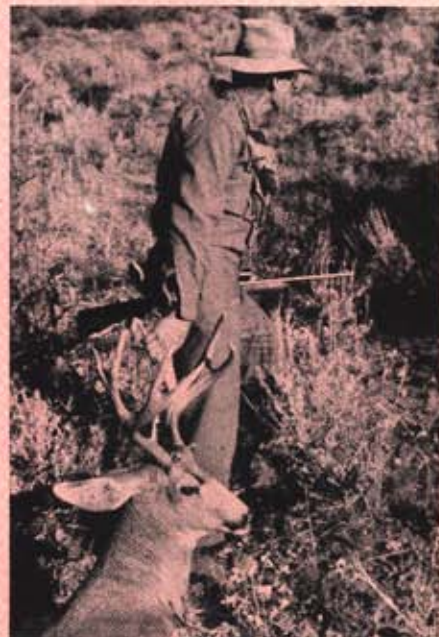
A few hundred yards further and I came to a big, gnarled oak. I climbed to the lower branches and seated myself comfortably in a fork. Up high, I could see for a long distance. Then I started to call. (Continued on page 44)



White tail buck responds to game call developed out of earlier work with fox, varmint callers.



Tinsley at work (above and left) lured many deer within easy gun shot using Burnham's new call, which takes guess work out of hunting (below).





# TUNE-UP PRACTICE FOR BIG GAME TARGETS

By FRANCIS E. SELL

Author, "The American Deer Hunter"



Pest or practice target, the ground squirrel is small, fast.

**T**HE RANGE: close to 250 yards. The shot: across a fog-filled canyon which made even that long range look longer. The target: elk.

The bull stood facing me, head high, his fine rack clearly etched against the snow of the further slope. He was one to remember, and to keep, if I could drop him. And I did. The 200 grain .348 bullet hit at the base of the throat and he fell without a struggle.

I'm proud of that shot; proud of the trophy. But this story is not about elk hunting, or big game hunting of any kind. This is a story about how you get the skill, the rifle confidence, that makes such shots pay off when they are offered.

I have killed a dozen elk and several times that number of deer, not to mention other big game. But the preparation for the cross-canyon shot at a bull elk was not gained from shots at big game, or even with a big game rifle. Practice for that shot was not with my Model 71 .348 Winchester; it was with a Marlin Model 39 .22 caliber lever action, and with Marlin Model 322 caliber .222 Remington. The targets? Columbia ground squirrels.

I hunt in the west-coast mountains all during the summer, and there's never a dearth of ground squirrel targets from June until late autumn. The ground squirrel is a prolific breeder and a small, fast, smart target. He comes in many



Sell's squirrel range with sunny slopes where striped ground squirrels play is also same terrain he shoots over in late fall at deer. Like conditions make good hunting practice for big game.





**CALL THEM SQUIRRELS, CHIPMUNKS,  
OR PESTS, THEY OFFER FINE PRACTICE  
FOR BIG GAME SHOOTING**



From sublime (bull elk, left) to ridiculous (above) is not so far, since woods-living nut-crackers are hunted much like deer.

shapes, sizes, colors, and coats, depending on where you hunt him; there are almost as many species of him as of people; but he is always a prime rifle target, one of the best for big game practice.

The mountains I hunt, near Myrtle Creek, Oregon, are covered with groves of pine and oak, sagebrush flats, open hills and grain fields, with just the right amount of broken rock escarpments for a ground squirrel paradise. I often



Pay-off for shooting pal Art Richardson is shot at fat Douglas Gray with HVA big-bore built for deer.



Author glasses squirrels with his Bushnell range finder which helps develop range-estimating skill in field conditions.

hunt alone, working out problems of field shooting, with deer and elk in mind. Sometimes I have another hunter with me, intent on his own field shooting problems.

These summer tune-ups for big game shooting are no casual undertakings. Several essentials must be observed if they are to have an autumn payoff. I vary my practice from day to day. One day I may devote entirely to polishing up my precision, long range, big game shooting. Another day, I concentrate on off- (Continued on page 24)



(Continued from page 23)

hand snapshooting at "reduced" deer targets.

I remember one day in late September, just before the local deer season opened, I spent a full day taking nothing but snapshots at ground squirrels as they scurried toward their burrows. I had a specific buck in mind as worked on this final polishing of my brush shooting techniques. Last year, this huge old rascal, ranging a tangle of hills covered with hardhack and huckleberry brush east of my cabin, had come crashing out of his bed in the huckleberry, affording me two fast snapshots as he cleared the low-growing stuff along the ridge. Both shots were clean misses. . . Two weeks after the ground squirrel in the Myrtle Creek mountains, I had another story to tell. That same buck came crashing out again one morning when a searching autumn rain trailed long grey banners across the cover—and this time I took him neatly—a shoulder shot at about 50 yards. He had added one point to those ivory-tipped antlers since I last saw him; and standing there in the rain, looking down at him, I realized that this shot, like that one at the elk, was in the making months before my big game hunt. Both started when I bought that lever action .22 as an understudy for my brush rifles.

I use two rifles for my brush deer and elk shooting. One is a Marlin Model 336 Carbine, caliber .35 Remington. This rifle, shooting a 200 grain soft point bullet, is a cracker-jack for snapshooting in heavy cover. My other brush rifle is a Model 71 Winchester .348, also shooting a 200 grain soft point bullet. Sights on the Marlin are Williams Foolproof receiver, and Redfield Sourdough front, a very fast combination for woods shooting. The Winchester Model 71 .348 has a factory peep and Redfield Sourdough front sight.

The understudy for these rifles is the Marlin Model 39, sighted the same in every detail: receiver peep and Sourdough front. It has the same weight trigger pull, and the stocks of the three rifles have been modified so they match in drop, pitch, and length.

This careful matching of rifles is very important. When autumn big game season rolls around, I go into the woods with shooting equipment as familiar as my old hunting hat. When I snap my Marlin 336 lever action to my shoulder for a fast shot at a jumped deer, or one passing my stand, I subconsciously remember how easy it was to take a much smaller target at about this range, offhand. Neither the equipment nor the shot I get is strange. I have a good solid basis for believing I can bring this shot off, and I usually do.

Snapshooting, however, is not the only payoff in autumn. There is that elk shot previously mentioned. All during the summer I spend days doing nothing but precision long range shooting at ground squirrel; shots at 100, 200, up to 250 yards. This also is a two way build-up for my big game shooting. First, and very important, it teaches me to estimate ranges across mountainous country. Second is the build-up in confidence which comes with increased skill to make precision shots on ground squirrel at big game ranges.

Even the technique of hunting this small, off-season quarry has much in common with big game hunting. Hunting, of course, is shaped by the rifle a hunter carries. When I carry my .22 Model 39 Marlin, I am a careful

(Continued on page 49)



## KNOW YOUR LAWMAKERS

### **Marguerite Stitt Church, M.C. 13th (Evanston) Dist., Illinois**

I APPRECIATE the opportunity which you offer me to comment on legislation, when you wrote to me asking my opinion on the Second Amendment. Nevertheless, it is my established practice, based on sound conviction that *opinion should be expressed from the public to me*, not to issue statements such as you kindly offer to include in your magazine. (Emphasis supplied.)

### **Representative John Brademas, Third District, Indiana**



IN TODAY'S WORLD firearms are used by the average citizen not to protect his home and family from Indian attacks or lawless mobs but rather as instruments of recreation and sport. In an age when "firearms" are intercontinental ballistic missiles and other types of highly complex weapons, "a well regulated militia" which is still, in the words of the Second Amendment, "necessary for the security of a free State," cannot be adequately prepared for combat without months and even years of special training. Yet the remarkable developments of modern military technology should not prevent a citizen from keeping and using arms for his own enjoyment, provided of course that he has learned to use them properly and safely.

### **Senator Styles Bridges, New Hampshire**

THE FIRST TEN AMENDMENTS were approved by Congress at its first session on March 4, 1789. The Preamble and Resolution preceding their adoptions stated that these amendments were proposed "in order to prevent mis-construction or abuses" by the Federal Government of its responsibility to the people. The reason for the Second Amendment is obvious. One need only ask what more realistic and practical protection can be retained in the people than the right to keep and bear arms. The Hungarian freedom fighters can vouch for the fact that rocks do not replace arms . . . As to "militia" . . . A militia is the necessary potential force that remains in existence if our Federal Army were abolished or destroyed tomorrow. My views on the Second Amendment can be summed up by quoting the first sentence from the first speaker in the First Session of Congress; Mr. Gerry—"This declaration of rights, I take it, is intended to secure the people against the maladministration of the Government; if we could suppose that, in all cases, the rights of the people would be attended to, the occasion for guards of this kind would be removed." Until the Utopian situation comes to pass which Congressman Gerry spoke of 170 years ago, the need for the Second Amendment and the other safeguards contained in our Bill of Rights will remain as essential to our liberty as when the amendments were adopted.

### **Senator Frank Church, Idaho**

I BELIEVE the Second Amendment to the Constitution represents an inherent and inviolate right of the American people. While the phrase referring to a "well regulated militia" may not be fully applicable in the modern sense, the intent of the founding fathers to assure the right to keep and bear arms I cannot believe was predicated solely on military potential. I also believe that any attempt to hamper or discourage this right we'd constitute an obvious infringement of the Amendment.



### **John H. Dent, M.C. 21st (Jeanette) Dist., Penna.**

I AM HAPPY to be invited to comment on the Second Amendment and its importance in today's world. The foresight of our Founding Fathers in establishing the right of the people to keep and bear arms has an added significance today. The knowledge of firearms, the ability to use said firearms, is a particular skill of few peoples. It is of particular note today that with the development of the nuclear services there is a de-emphasis of man power and ground troops. A citizen militia, organized or unorganized, can be a great deterrent to ambitious war-makers. The history of Switzerland in this regard is noteworthy. I, for one, oppose any infringement on the arms owning and bearing rights of the American people.



# New Ranges Welcome Pan-Am Gunners

INTERNATIONAL RIFLE-PISTOL-SHOTGUN MATCHES PROMISE  
GOODWILL VALUES PLUS NEW INTEREST IN ISU SHOOTING



Engineer Maj. Curtis is boss of construction job.



New spread on Waukegan's lake front features 50-, 100-, 300-meter and 200 yard rifle ranges with 40 point house which will resemble Montevideo ISU-type shooting club (rt.)

By WILLIAM B. EDWARDS  
*Pan-Am Games Shooting Committee*

AS YOU READ THIS, bullets are thudding into a new backstop beside the sparkling waters of Lake Michigan—bullets fired in a shooting match that can brighten the picture of international relations. Shots snapping out in measured cadence under the long, low 40-point firing shed at Waukegan, Illinois, mark the fulfillment of the work and dreams of many men: the completion of the first public International-style shooting range in the United States. It is a range laid out in meters, not yards, and designed for the tense, dramatic, sometimes very slow, sometimes startlingly fast, but always colorful courses of rifle and pistol competi-

tion set up by the International Shooting Union. This range may mark the beginning of a new era, at least a new phase, of target competition in the Americas.

To date, records of United States' shooters in international competition are good, but not good enough to justify our boasts that we are the world's best marksmen. This is not strange, since few U. S. targeteers have ever had an opportunity to practice on an international-type range or to shoot the international courses of fire. The only range for this type of practice has been the one at Ft. Benning, Georgia—with the result that most of the





H-S Olympics are in use by U.S. Army.



Smith & Wesson's new M41 is gaining favor among Internationalists.



Hammerli Free Pistol fits the ISU rules.

Auto and single shot pistols for ISU competition are of formal design. Swiss Hammerli SS is only pistol made today for Free style shooting. U.S. and foreign autos have weights, muzzle brakes for rapid fire.



Finnish Lion rifle thumb hole stock is typical.



Newest U.S. rifle is Winchester "American Olympic" with palm rest, massive breech in .308 and .22 calibers. Redfield sights are offset to avoid heat haze; stock has adjustable Swiss butt for offhand event.



U. S. competitors in the Pan-Am shooting games will come from there. The U. S. team will consist of 30 riflemen and pistolmen from the Army, Navy, and Border Patrol. Few civilians have had the practice facilities for this type of shooting.

Instructions on how to shoot the International Rapid Fire Pistol Course, for example, is practically non-existent in English. Top shooters in Romania, Hungary, and the USSR have written how to do it, but few U. S. shooters have read their suggestions. Nikolai Kalinitchenko, the Russian who won the 1954 Caracas World Championship and the present world record, says: "Correct timing is of the greatest importance." This is obvious from the nature of the match, which consists of 60 shots in two "courses" of 30. Each course is six series of five shots each, at five turning silhouette targets, 50 meters distant. Twice in each

course the shooter must fire five shots, one at each of the five targets, in eight seconds. Twice, he must do it in six seconds; and, twice, he must do it in four seconds. The competitor awaits the turning of the targets with his pistol cocked and pointing down at an angle not greater than 45° with the vertical.

Pistols for rapid fire are .22 caliber semi-automatics. Leader today in current U. S. rapid fire pistol production is High Standard. Their interest dates back to the matches in Buenos Aires in 1952 when they equipped our team with .22 Short match pistols. Today, their Olympic "Citation" model in .22 Short, though costing only \$85, is probably the largest-selling handgun of its type in this country. Smith & Wesson's long-awaited Model 41 (in development since before War Two) has definite ISU features, such as muzzle brake and added weight to steady the weapon.





Custom Dunlap left-hand Free rifle is held by U.S. shooter Larry Moore in kneeling pose he has used to win matches. Above, Lake County muzzle loaders plan big shoot and barbecue for the Pan American competitors.



Rapid fire course is shot on five targets which face front for only seconds. Right, ISU pistolman has Walther Olympia at 45° as targets turn.



Second, and with wide international following, is the Walther "Olympia Pistole," now made by Hammerli in Switzerland. Beretta Olympic pistols are also offered here. Of the arms to be seen at Waukegan, Olympias and Hammerlis probably will predominate, with some competitors using U. S.-made weapons.

From Latin America, U. S. shooters may be treated to views of some modern match pistols made south of Panama. Argentina has an active small arms industry and, in addition to turning out .45 automatic and military rifles, produces .22 pistols based on the Colt Woodsman design. Chile has also produced automatic pistols. In the United States of Brazil, manufacturers are turning out sport and defense handguns, as well as the Danish-designed Madsen sub-machine gun in .45 caliber. Muzzle loading shotguns and folding guns of the "Gamegetter" class are made by Lerap

Company. The firm Forjas Taurus SA makes revolvers like the Smith & Wesson. From Brazil, even if they are just made as "prestige" models for their International competitors, new sport firearms might appear.

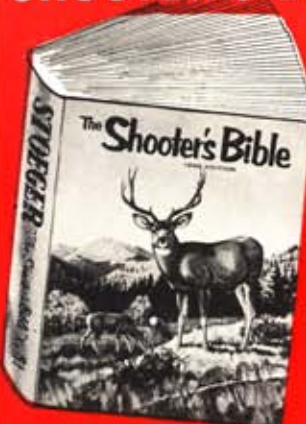
In the Rapid Fire event, any .22 auto pistol or revolver may be used, if it is safe. Says Kalinitchenko, "Rapid fire pistol shooting at silhouettes is one of the most difficult forms of marksmanship. The first shot of each series is extremely important, as the arm has to travel from the Ready position to the center of the first target. This is a distance considerably greater than from target to target. The first shot must be fired at a very definite moment; otherwise the whole tempo and rhythm would be upset and the result of the whole series spoiled."

Kalinitchenko's technique for getting the pistol up begins with a fast start in the

(Continued on page 32)



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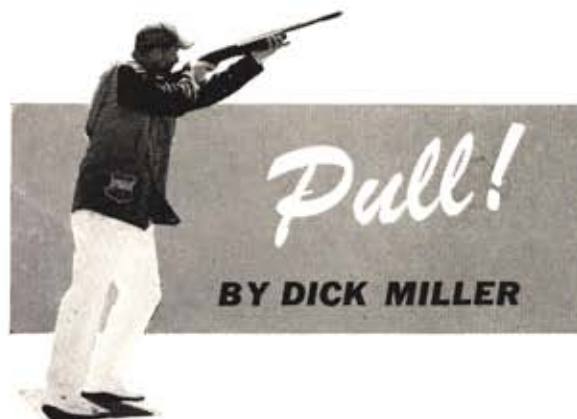
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BY DICK MILLER

**T**HEODORE ROOSEVELT once offered the following as a sort of capsule code of ethics: "Don't flinch, don't foul, hit the line hard." In sports phraseology, it applies equally well to all facets of human conduct. But the first two words, "Don't flinch," might well be framed in large, bright letters over every man's gun rack. A lot of trap and skeet shooters (and you can include me in!) would be glad if those two words were painted on the back side (facing the shooter) of every trap house. For flinching is, if not the toughest, certainly one of the toughest of all the problems that afflict the trap and skeet shooter. It is just as tough, too, for the field shotgunner. And it affects more shooters than you think, including many who don't know they are afflicted.

There are several kinds of flinches. Most common is the convulsive jerk of the trigger that throws the shot pattern off target. It has been said that this type of flinch originates with the conscious or subconscious desire of the shooter to throw his shoulder back, away from the gun's recoil. But the same type of flinch occurs with pistol shooters, and shooters of rifles having practically no recoil. The flinch may come from some kind of fear of the noise or blast of the shot, or from the sudden release of the nervous tension that has built up with the effort to make the shot perfect.

But this is not the only kind of "flinch." Some shooters have a tendency to "freeze" on the trigger, stopping their trigger pull at the instant before firing. This results in a shot behind the target, or in a delayed shot while the shooter catches up with the target. Still other shooters close their eyes at the instant of firing, losing all visual aid at the exact time when it is needed. Others lift their face from the stock at the critical instant, possibly to avoid facial punishment from recoil. All of these are nervous reactions, and all are probably induced by fear—of one kind or another.

There are many "sure fire" recipes for curing flinch. Rifle and pistol marksmen, whose guns are sighted on target at the instant of firing, swear by the empty-chamber treatment. A friend loads, or fails to load, the rifle or pistol. The shooter makes his "shot," the gun is empty, but he flinches—and sees his flinch in the way his sights jump off target. He then realizes that he is flinching, and devotes his efforts directly to *not* flinching. This often works. But it is not nearly so effective for shotgunners, because theirs is a moving sight picture and the effect of the flinch is not nearly so apparent.

Proper stock fitting can very often reduce a shotgun shooter's tendency to flinch, for

the reason that the fitted stock does not jolt his shoulder, does not punish his face, the way his old ill-fitting stock did. It is a proven fact that a stock that is too long, or improperly pitched or combed, can make a flincher out of a non-flincher in an afternoon's shooting; it should follow then that a gun whose recoil does not hurt the shooter should help the shooter to stop flinching.

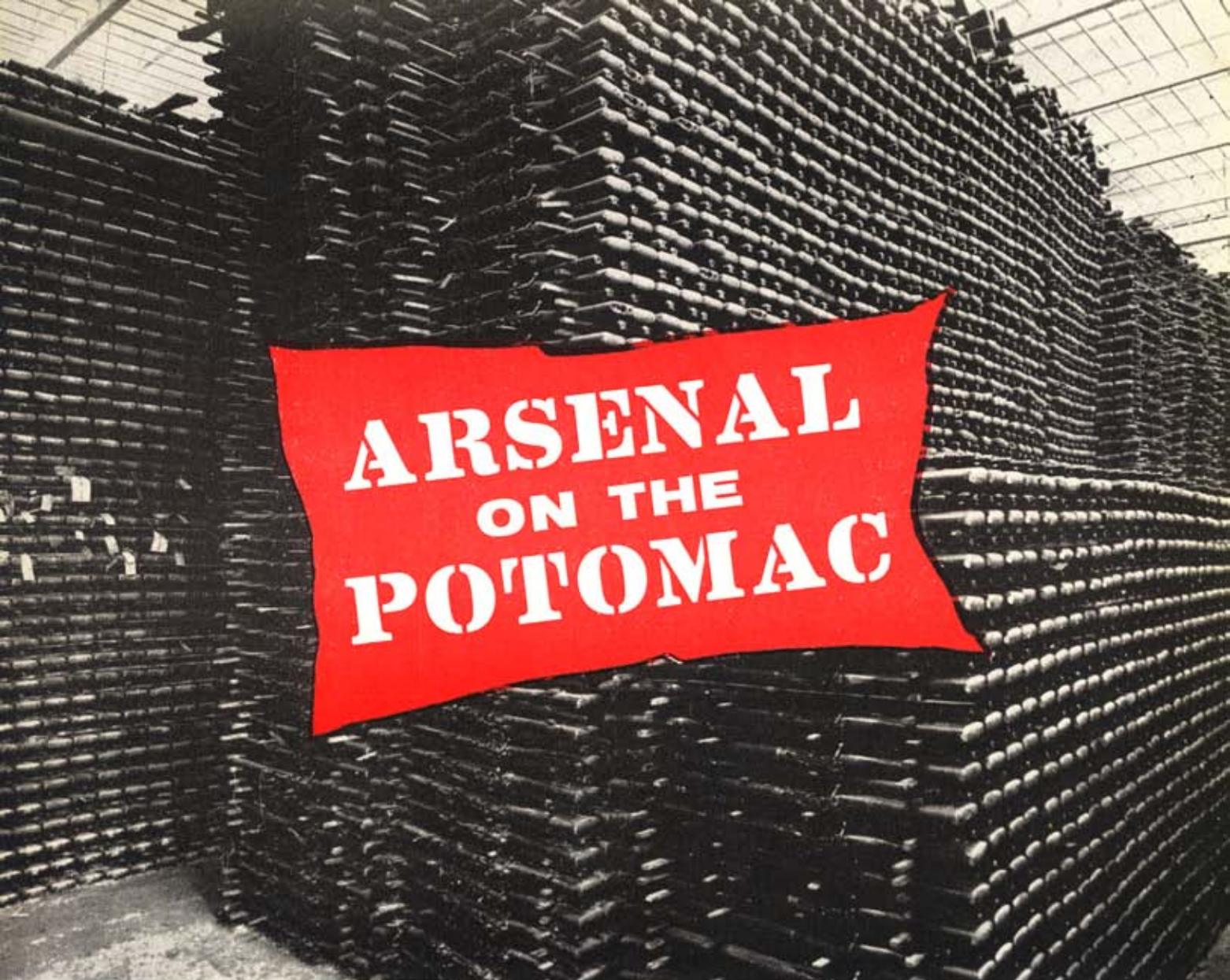
Correcting an ill-fitting stock is relatively easy, either by alteration of the stock or by replacing it with a fitted stock. Sometimes all that is needed is to add to or reduce stock length. Sometimes the problem can be solved by scraping down the height of the comb. Sometimes the grip is too large, or too small, or so slanted that it cramps the hand. All of these faults can be corrected at a price, usually quite small.

But sometimes none of these things cure the flincher of his habit. Perhaps his particular brand of flinch was not caused by fear or blast, or sound, or recoil, but by some unguessed tension. Shooters of long experience, with guns expertly fitted to them and used successfully for years, develop flinch—and I am one of them. Where it came from, or why, I don't know; but after many years of shooting, I became a flincher. I was told that mine was the worst of all possible types of flinches, for the very reason that I was an experienced shooter. For me, the "simple" cures were useless because I had already used them. My guns *did* fit me, *did not* hurt me; and if I was afraid of blast it was a very sudden development, since blast hadn't bothered me before. The only thing for me, they said, was a release trigger—a trigger that had to be held back during the aiming swing, that fired when released, on the forward instead of the rearward movement.

So I had my guns rebuilt with release triggers. Did you ever try to ride a bicycle on which you had to pedal backward to go forward? Breaking down all the ingrained habits of trigger squeeze to work a release trigger is not easy, either. I hate to think how many birds fell untouched while my gun remained unfired because I was pulling on rather than releasing that trigger. But I learned; and I stopped flinching. Maybe the sheer mental concentration required to make my finger reverse its long established trigger movement took my mind off whatever it was that made me a flincher. I don't know why, nor how; all I know is that now I'm bustin' birds again, and that's what matters.

"Dry firing," swinging an unloaded gun on the flying target and pulling the trigger to simulate the shot, has helped many flinchers. Do this exclusively through a number of  
(Continued on page 40)





# ARSENAL ON THE POTOMAC

Enfield rifles at Weedon Arsenal await proof after being bought by Interarmco.

## INSIDE INTERARMCO SHOWS FIRM WAS PROBABLY FIRST IMPORTER OF YOUR CURIO FIREARM OR REMODELED GI SPORTER

By WILLIAM ARMISTEAD

**F**IFTY FOREIGN CANNON point ominously at Washington, D. C., from a vantage point across the Potomac River. But the big guns, ranging from 3-inch antiaircrafts to hulking 60-pounders, are in friendly hands.

English-made relics of World War I, the cannon were recently imported by Interarmco., the Alexandria, Va., firm known to American gun fans as the source for "everything from muskets to machine guns." Complete with sights and other accessories, the field pieces are destined for sale to collectors, movie studios, museums, and "big bore fanatics" in general.

As dock cranes lowered the artillery to earth at Inter-

armco's Virginia headquarters, other company guns blasted in London and Birmingham. There, in the British gun trade proof houses, thousands of .303 Enfield rifles were being tested with heavy overloads before shipment to U. S. sportsmen.

The British government, following cutbacks in its infantry force levels, put a large lot of Enfields up for sale last spring. Interarmco purchased the entire lot through a London affiliate in the largest such small arms transaction ever completed.

At government request, the company left a substantial number of Enfields in Britain for private sale. The Enfield





Company imports various modern foreign arms like "clam shell" Madsen 9mm (above), sells through Class 4 dealers.

action, fastest of the turning bolt type, is in great demand there for sporting use, and sporter conversions are the "bread and butter" of Commonwealth gunsmiths.

With the Enfields came a quantity of pistols and revolvers acquired by the British at the time of Dunkirk, or captured during World War II. Included were Lugers, Mausers, rare Ballester Molina .45s of Argentine manufacture, prewar Llama pocket autos in their original boxes, and other handguns which English law makes it practically impossible for a private citizen to own.

Hidden in a few crates were a handful of Colt Navy Models, some choice flat-top Bisleys, and 100 Colt Single Action Armys in numbered pairs. These "finds," considered too small to advertise, were sold to dealers here and abroad. The great majority of the handguns were proved, inspected, and then shipped to Interarmco's U. S. warehouses for wholesale distribution.

British law requires strict proving of all exported arms, despite their original military tests. Proving is done at London and Birmingham under supervision of the Ministry of Supply. Rifles and pistols are proved with loads developing 30 to 45 per cent more pressure than standard ammunition, and each gun must also pass the "View"—a detailed inspection of its action and barrel before and after firing.

Each chamber of a revolver's cylinder is defined as a separate "barrel" under this law, and is individually proved. A tiny, crowned proof mark is stamped between cylinder locking notches when satisfactorily proved. Service pressures, in long tons per square inch, are also stamped on the barrel. These indicate the normal pressures of ammo for which the gun is intended.

Interarmco's facilities are keyed to transactions of this size. The firm is both the postwar pioneer in volume trading of surplus military arms, and the largest domestic distributor. It was the primary contractor of two other major imports, the 7.35 mm Italian Carcano (M38) and the 6.5 mm Swedish Mauser (M94) carbines.

The Enfield shipments and other European transactions



Retail store at Interarmco is separate company doing over-the-counter trade under name of "Ye Old Hunter." Run by Johnny Richards, Y.O.H. is emporium for everything shootable ever made.





Interarm proxy Sam Cummings has big collection of one each of every gun firm has imported. Top three are Enfields; then Johnson, U. S. and Jap Garand, Walther and Mauser WWII auto rifles.



Huge British field gun is lowered to dock in Alexandria, Va. Gun is one of dozens bought by Interarmco in Irish deal, for sale here.



Swedish Mauser M94 carbines are packed for shipment to large mail order chain that sold thousands.

are handled from company offices in London and Geneva. Gunsmithing and remanufacturing for foreign governments are handled largely through an affiliate, Cogswell & Harrison Ltd. of London, Britain's largest gun house. Interarmco also has sales offices and representatives in the various European and South American capitals and in some African and Asian countries.

Home base is a complex of offices, warehouses, dock and railroad facilities overlooking the Nation's Capital in historic Alexandria, Virginia. Here eight large warehouse buildings are flanked by docks and tracks; munitions from all corners of the globe are unloaded on their "sea side," checked, processed and then shipped inland by rail or truck on the other.

The interior of these guarded buildings is a gun bug's paradise. Here one can find a fully armed Vampire jet crated for export, a display of the latest Armalite, CETME, and F.N. automatic rifles, various machine weapons for police and the military, and neat racks of American, Austrian, Belgian, British, Czech, Egyptian, German, Italian and Spanish ex-military rifles for sale to the sporting public.

Accessories, spare parts and vast lots of some 40 military and sporting ammo types are stored separately. The com-

pany's mail order branch, Hunters Lodge, is nearby and has direct access to all the central magazines. "Ye Old Hunter," a bewhiskered gent of obvious rural extraction, is its "trade mark" and the brain child of genial Samuel Cummings, Interarmco's president, who believes in bringing some light touches to the otherwise serious gun business.

A retail "Ye Old Hunter" gun store, and Potomac Arms, a mail order house for military arms parts, occupy nearby buildings. Operated by John C. Richards, these firms are separate from Interarmco but sell many of its inventory items.

Interarmco is purposely located near Washington because the importing of arms is one of the most closely controlled U. S. industries. Imports and exports are made only under individual licenses from the State Department. The domestic sale of automatic weapons is also under supervision of the Treasury. A separate Interarmco division, under Rear Admiral C. L. C. Atkeson (USN-ret.) deals with the intricacies of governmental regulations.

These are often highly involved. It took four years of negotiations with the Departments of Commerce, Defense and State before a small lot of M-1 rifles was released recently for public sale. The rifles spent the 48-month wait snug in blankets of cosmoline at a (Continued on page 43)



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## NEW RANGES WELCOME PAN-AM GUNNERS

(Continued from page 27)

Eight and Six second series. He raises the pistol quickly but smoothly to the seven ring; then slows the swing and "glides" the sights smoothly into the ten ring to fire.

"It is essential that the finger should begin to press the trigger as the upward movement of the arm commences," he explains. "The application of the index finger should coincide with that of the arm; two-thirds of the way energetically and fast, and the remaining third rather softly. Thus the pistol must go into the ten in a 'flowing' manner, the finger must squeeze the trigger evenly, so that the shot 'gets away' the moment when the pistol has reached the stand-still mark. In this very brief stand-still stage it should be only a matter of checking one's aim and of applying the final pressure to the trigger. All this, properly carried out, will guarantee success," concludes the Soviet shooter.

In the four-second stage, Kalinitchenko says that a ten cannot be guaranteed on the first target. Better shoot a nine, and hit all five targets, he urges, than shoot four tens and a miss as the last silhouette flips sideways.

Kalinitchenko explains that "Transferring the aim from one target to the next is not done by merely moving the arm or hand, but by turning the whole body, while the feet remain firmly at the same spot. The arm holding the pistol is held rigidly. The body is turned with the aid of the leg muscles." To assure himself of a smooth transition from target to target, K looks at the following target after firing his first, second, third or fourth shot, and then transfers his shooting hand and sight line-up to the new ten.

From five shots in four seconds to 60 shots in three hours is a big jump, but only to be expected in an ISU shoot. The Free Pistol is fired at 50 meters, and the requirement for extreme accuracy, plus the long time allowed, has created a unique form of handgun for sport: the "Free Pistol." The trigger pull on the Free Pistol may be as little as an ounce. The stock may even be shaped to prevent the finger from actually touching the trigger, which would accidentally fire it. Instead, a

button protrudes, to be brushed by the ball of the finger when the shooter wants to fire.

Records in the Free Pistol events have been set by American guns. The great Lord and Gould model Stevens single shot pistols once led the field, but they are no longer made. Smith & Wesson produced a highly accurate .22 match pistol, the Model 1891 Single Shot. Today, the Martini pistol made by Hammerli is the most popular free pistol, and about 500 are produced each year.

More static, but equally colorful at Waukegan will be the Free Rifles fired at 50 meters and 300 meters. The 50 meter event is small bore, .22 or 5.6 mm., and ammunition "must be of a make which is available in the open international market at a price not exceeding 26 U.S. dollars per 1,000," according to ISU Rules. Rifles have no mechanical design restrictions, but must not weigh over eight kilograms—17.6 pounds.

There are five possible Free Rifle positions. In free prone, any position lying forwards or backwards (so-called "Creedmoor") is okay, the only restriction being that the rifle must be held solely by the shooter and not touch the ground or an artificial support. The regular prone position, regular kneeling, regular sitting, and regular standing are described in several-hundred-word paragraphs in the ISU rules, although prone, kneeling, and sitting generally resemble the NRA stances. In standing, the supporting arm's elbow may rest on the hip and, "in order to compensate for insufficient length of the arms, the shooter in Free Rifle competitions is permitted to use a special removable grip or palm rest fastened onto the fore-end of his rifle in front of the trigger guard and extending not more than 20 centimeters below the barrel. The use of a sling is prohibited unless the shooter does not use the palm-rest . . ."

Created to conform to the exacting standards of Free Rifle shooting is a rifle which is neither free of restrictions nor yet of price. Most costly of standard target rifles, the hook-butt palm-rest Free Rifle may cost from \$200 to \$400 in standard style—much more



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if the shooter wants custom modifications, and most do. Iron sights only are used—fundamentally the old "Globe" and "peep" type, but surrounded by micrometric adjusting apparatus. Sights must move the point of impact across a metrically-measured target; hence the new Redfield "Olympic", which is metric calibrated, is used on U. S. rifles for "Free" shooting. With hook butt and rest, or custom stock entirely, such old favorites as the Model 52C bull gun can be adapted to Free Rifle work. Special Free Rifles now made are the Swiss Hammerli straight-pull in 300 meter big bore and 50 meter small bore styles; the Walther and J. G. Anschuetz from Germany; the Lion bolt action from Finland; and the Tula-built Russian match rifles which have been taking gold medals all over the world.

The challenge to American gun makers offered by fine foreign match rifles has been taken up by Winchester in the creation of the new "American Olympic" rifle. Successor to previous models and in development since 1955, the American Olympic may appear on Waukegan's range either in competition or on display. Five of the rifles are currently at Fort Benning, being studied by the Army team shooters.

In .308-7.62 NATO caliber, the American Olympic uses the Model 70 bolt, in a new receiver of slab-sided design for great stiffness and absence of vibration. With this rifle Winchester testers have produced 200-yard ten shot targets, center to center, averaging between 1" and 1½" extreme spread. Being built now are prototypes of a smallbore model. Winchester's plans at present are limited by the idea that there is small demand for the Free Rifle in this country; hence prices quoted are prohibitively high for anybody except Uncle Sam since no part of the rifles will be mass-produced.

Less difficult were the problems of the skeet event. To be fired at the existing Lincoln Park Gun Club at the lake on Chicago's North Side, the 200-bird shotgun event has long been "under control." Guns used will be standard pumps, doubles, autos as preferred by the shooters. Under the able guidance of Skeet Committee chairman Jim Wareham, Pan American shotgunners will be well taken care of. But ISU skeet is much like skeet anywhere; and it is in the rifle and pistol competitions that the Games will give Chicago gun fans some new thrills.

International Shooting offers more varied and more exacting competitions than any of the shoots presently so popular. Certainly the ISU 100 meter smallbore event does not see any quantity of "possible" scores made regularly, to be broken only by the longest string of Xs. And the 300 meter off-hand matches of ISU competition really separate the men from the boys.

These Pan American shooting matches have separated the men from the boys in another sense, too—those who do, from those who talk. Originally scheduled to be fired at some range as-then-uncreated in Chicago, the talk about "getting a range" continued for a couple of years with nothing being done. An informal survey of the vast spaces on Chicago-owned O'Hare Field was made by one shooter at considerable private cost in time and effort. With the bullet baffle system of standard International range design, a 300-meter range could be set up in the middle of the most densely populated area without danger; but as indecision lagged behind delays, the Mayor of Waukegan, the Hon. Robert Sabonjian, came forward with an offer of city land on which to build a range in his town. The Shooting Committee under Dave Moore okayed the project, and a committee was formed of leading Waukegan doers. Key man was unquestionably the energetic Mayor Sabonjian, who knows how to get things done. We recall meeting him on a cold autumn day last year, when Moore and others of the Chicago Pan-Am Games people visited the Waukegan range site to see just what had to be done.

The lake was dull and friendless, and the wind bit through coats in a marrow-chilling embrace. The strip of land which Sabonjian was promising looked about as unpromising as any city dump. The Mayor came over to meet some of the people. At the bulldozer controls was Gene Redding, Waukegan shooting committee member and chief of city detectives. Redding could run a dozer, and some of his free time in the months later was put in scraping up old bottles and tin cans into the 300 meter backstop which now rises above the cleanest beach near Chicago.

Sabonjian's importance in the range construction is top level, but others contributed. With the cooperation of the Lake County Contractors Association, local architect firm Ekstrand, Schad & West, who contributed

(Continued on page 36)



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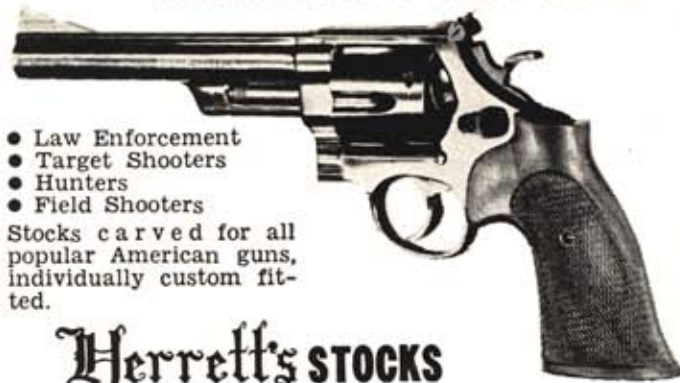
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(Continued from page 33)

the range plans, Ward Just, publisher of the Waukegan News-Sun who is heading the fund drive, and others of the local contracting-banking-sports fraternity, the range slowly came into being.

Coordinator of the whole construction is a man who has been through it all before. Major Ben C. Curtis, of the Army Corps of Engineers, who is a top shooter, has been assigned to Waukegan to supervise the job. Curtis stated in the official bulletin of the Games, "I can't say enough in praise of the firms and people who are helping—firms like Eric Bolander Construction Co. and Tewes Construction Co. . . . The same goes for the 357th Engineers reserve unit of the Army here at Waukegan, under command of Capt. George Sides."

Curtis sees the range as having permanent value to the area. As a metric range, it is the natural site for national and international competitions, and might be used for the U.S. Olympic Team tryouts in 1960. With the possibility that Chicago might one day host the Olympic Games, the range would be again a necessity.

Other Lake Countians have come forward with a unique hospitality program. While swimmers and track stars will have dances, and the Festival of the Americas will hold sway in Chicago, the Lake County Museum of History (about 20 minutes' drive from the range) will hold an unusual exhibition shooting match. Believing the Latin American competitors might enjoy a look at Americans "fighting the Civil War over again," Museum director Robert Vogel offered an unusual proposal to the Pan Am Games Hospitality Committee. As a breather from the

nerve-twisting tension of International Shooting, Vogel proposes to give Pan Am Games cap-snappers a chance to sit down and rest and watch somebody else shoot for a change. Uniformed lads in Blue and Gray will take over one afternoon and put on a muzzle loading rifle exhibition match, together with displays of old and new weapons. A "forager's barbecue" for the Pan Am shooters, featuring ribs and chickens donated by such local hostilities as Skokie's famed Prime Rib Restaurant, whose owner Glenn Rodkin is a quick draw expert, will complete the evening's fun at the Museum's outdoor picnic grounds on Wadsworth Road near Route 41.

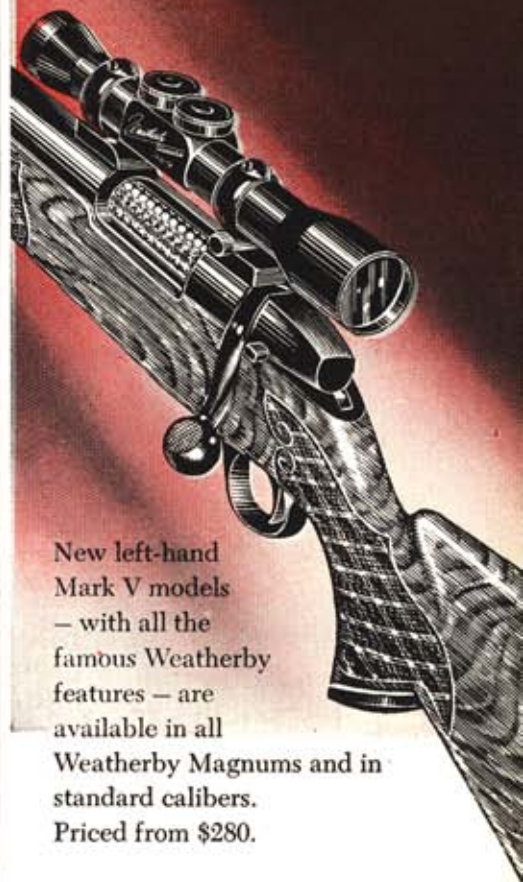
The hospitality shoot, unofficial though it is, symbolizes the significance of the entire Games program. From a common interest stems understanding and, from that, friendship. The meeting of shooters from all nations of the Western Hemisphere will have, potentially, greater importance than the match itself. The Latin Americans will meet gun sportsmen from many parts of the U.S. They will return to their homes with a better conception of the scope and breadth of the North American gun fans' interest in all kinds of arms, a first-hand knowledge of North American friendliness and sportsmanship, and a better understanding of our way of life.

Waukegan and Lake County citizens have created, with their whole-hearted cooperation in the Pan American Games range project a basis for better international relations. If we can (and we can) win their friendship, the question of whether U.S. shooters take home any medals or not seems almost immaterial. Whether first or last in the scoring, we'll still be winners.

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loose quickly.

Slings are permitted at all ranges and should be used as tightly as possible to maintain position.

A wide-aperture rear sight should be used, since it permits the shooter to identify his particular target rapidly and correct quickly, when recoil moves him off. It allows more light to reach the eye and thus is an advantage in overcast weather.

The shooting jacket should be as tight through the shoulders as is possible, without curtailing comfort. A loose jacket allows the rifle butt to move on the shoulder, permitting an accidentally different sight picture, and decreasing accuracy. Along this same line, rosin should be applied to the leather pad of the jacket, and worked in until it is tacky, prior to the match.

An item which rounds out the jacket fit is the web ammunition belt. It not only holds the 64 rounds per shooter, but keeps the jacket from riding up. It should be worn as tightly as possible, but should not restrict breathing comfort.

Spotting scopes are not permitted, so the two firing-unit leaders, the captain and coach, should be supplied with binoculars which are of high enough power to note the displacement of air by the bullet's passage, but low enough power to be hand-held. Center focusing binoculars offer slightly more speed in adjusting from range to range, but the preference is purely a personal one.

Yellow glasses are a definite advantage on overcast days.

In selecting a team, the two unit leaders should be experienced coaches, capable of reading wind and mirage changes accurately, with ability to follow a bullet's course. They should be calm, encouraging individuals with the ability to make quick decisions. They must be thoroughly acquainted with the shooters of their units and the response of each man to given situations, i.e. pressures, malfunction, discipline, change, or unanticipated trouble... a dropped clip or long round.

These two men are responsible for team entry and arrival in time for the match, drawing and issuing ammo, determining how ammo will be used, checking firers out on wind dope and sight settings, and target assignments. During firing, each will observe fire of the inside man and correct for the entire squad. He will issue commands only when necessary.

In the 1958 Matches at Camp Perry, we watched a Marine coach moving behind each man and making corrections. Though there was little time during the 50 firing seconds,

## CAMP PERRY'S "MAD MINUTE"

(Continued from page 16)

the corrections were obviously worthwhile. This takes great experience on the part of both the coach and firers.

"Weight," said the officer at the opening ceremonies at last year's High Power Matches "is highly important in the Infantry Trophy Match."

With that, he proceeded to trot out a pair of massive sergeants to give a fire power demonstration. The two dropped into position and proceeded to lay a rapid fire string exactly where they wanted, handling their Service Rifles like .22s. Big men are an advantage, since they aren't moved as easily by recoil.

Disregarding size, since most civilian teams can't be that choosy, here is this writer's opinion of the ideal Infantry Trophyman. He would be one of those shooters who usually comes out with high scores in the 200 and 300 yard rapid fire matches, with four to six seconds to spare after each string. This would normally mean that he has the ability to take positions rapidly and correctly, load automatically and without waste motion. He gets back on target in a minimum of time. He uses good position, and can squeeze that trigger quickly and smoothly.

The rounds fired in the prone positions, used entirely at 600 yards and normally at 500 yards, are the most important, point-wise. Therefore, belly shooting should be carefully studied. Recovery from recoil is the problem in rapid fire, and proper body position is essential. Too much angle between the rifle and the body means the recoil will continually pull the butt of the rifle away from the proper position on the shoulder, or push the shooter to the right. This may leave his left, or supporting, elbow out at an unsteady angle. The body must be behind the rifle, and the feet should be dug in.

A large number of the prone rapid fire shooters are using a prone position with the right leg drawn up in a "crawl" position. Ordinarily, a foothold is kicked into the ground with the side of the right boot before shooting commences. The body weight should be up on the elbows, giving an additional two point hold.

Experts say that hands are used to align the sights in this shoot, and the rifle stock is actually gripped to bring about rapid recovery, contrary to other shooting.

Sitting is the second most important position since it is generally selected over kneeling in the 300 yard stage. The Army Infantry School teaches the open-legged stance at the Small Arms Firing School at Perry, and this match is definitely the place to use their position.



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Legs are wide apart, the underside of the knees just a spread handspan from the ground, ankles turned in, "edging" the ground with the inside of the foot. The right elbow should be inside the right knee and the body should be bent well forward.

When the 200 yard range is reached, shooters should have little ammunition left. If there are only one or two rounds, the normal offhand stance may apply. If there are a number of rounds left because of some mechanical problem encountered at the previous ranges, the majority of the ammunition should be issued to the best offhand shooters, with a small quantity to the other team members. Average offhand shooters may do well on the rapid offhand by reaching well out on the stock with the left hand and pulling in tightly, using the right hand and arm in the normal position.

Sight picture is important at any stage of the match; however, it is worthless without some idea of a zero. Each shooter should establish a rapid fire zero and should record it on a slip of paper taped to his rifle. He should check himself at each range to be sure he has his sights set correctly. Since a certain amount of jerk comes with the high rate of fire used, most right handers use a zero above and left of their normal slow fire zero. This difference in elevation and windage depends on the individual, and can be determined only through practice.

"Where do I hold?" the beginner asks. "There are no bull's-eyes on that target."

This is up to the coach and firer. There is little need to bring in the sighting system here, except to mention that some use a butt hold, aiming on the point where target meets the ground; others hold for the center of the mass, or the middle of the silhouette, and others probably use their own unique developments.

Since the service teams seem to dominate the Infantry Trophy Match, the answer to winning is practice. This can be an expensive proposition for the civilian club, but mixed with a liberal amount of dry firing, using dummy rounds and having a team member slam the bolt open with his glove-encased right hand, it is worth the effort. The satisfaction of hitting a position, slamming plenty of your rounds into your target, and then into the bonus target, then watching as the white marker bobs up and down with the message that your team has laid them in there, is as enjoyable as a good steak. That medal you pick up is just the gravy to top it off.

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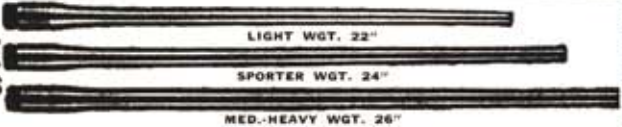
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## PULL!

(Continued from page 28)

practice sessions, until your nerves no longer expect the blast or the kick or whatever it is that was making you flinch. Then try a few real shots with light loads. At the first sign of flinching, go back to dry firing. Work up slowly to regular loads, stopping each time the tendency to flinch occurs. This has worked for many, may work for you. Don't go plunk for release triggers until you've tried the simpler remedies; this is major surgery when maybe only a pill or two is needed. And if you do convince yourself that only the major surgery will get the job done, do it with the full knowledge that you're facing a job of unlearning and re-learning that will require patience and practice. You'll need a lot of both before you get back to the scores you made before you started flinching. . . But it's worth it.

★ ★ ★

The National Rifle Association, the official organization representing the International Shooting Union in the United States, delegated the authority for the selection of the U. S. skeet team for the Pan-American Games to the National Skeet Shooting Association. Team try-outs were held at the Princess Anne Gun Club, Lynnhaven, Va., on Aug. 9-10, following the big NSSA championship shoot. The Pan-Am skeet match, being fired at the Lincoln Park Gun Club, Chicago, September 5-6, will consist of 200 targets under the ISU rules with the low gun position and variable timing. Each country's team consists of four men and two alternates, with four only to shoot in the matches.

★ ★ ★

Colleges and universities may soon be scouting skeet and trap tournaments to obtain letters of intent from promising junior trap and skeet shooters, when plans for clay target intercollegiate competition are finalized by Indiana University. Trap and skeet ranges operated by IU's Center for Police Training, under the direction of the Center's assistant director, A. Robert Matt, will be the scene of clay target smashing for dear old alma mater.

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Showing the mushroom effect of a lead revolver bullet that has been hollow pointed by a GOERG HOLLOW POINT, compared to a solid point bullet. Available for .45 Colt, .44 Mag., .44 Special, .357 Magnum, and .38 Special. Retail \$5.95.

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# Klein's Sporting Goods

**10 Ga. 3 1/2" Magnum Double Barrel**  
Brand New, First Quality! Pay Only \$12.00 Down!  
SAVE \$50.00

Save! Pre Season sale! \$50.00 Off  
Mfr's list price! Can't mention famous  
Anson and Deely action locking system, with proven  
Greener crossbolt... will not shoot loose. It is in frame,  
Highest quality alloy steel, 3 1/2" chamber, matted rib barrels  
with 32" full & full chokes, double triggers, hand engraved  
action. Select walnut checked stock and heavy barrel. 100%  
Recoil pad. Weight 10 1/2 lbs. (Write for famous maker's name  
and complete details, if you prefer.)

Mfr's list \$169.95! KLEIN'S SALE PRICE..... **\$119.95**  
Same as above, except without hand engraving. **\$109.95**  
\$154.95 Value  
3 1/2" Magnum shells, 2 or 4 shot... **\$7.05 per 25**  
Above Shotgun is also available in 12 Gauge, 26",  
28" or 30", 2 1/2" chamber, \$139.95 Value..... **\$99.95**

## Save \$55.05! 12 GA. PUMP SHOTGUN KIT

Brand New!  
First Quality!  
Weighs only 6 1/4 lbs. **\$69.95**  
4 Shot... Free 3 Shell Plug

This same famous make pump shotgun sells for \$125.00 every-  
where! Famous name can't be advertised. You save \$55.05 by  
assembling the barrel and stock to the action and by finishing the  
already fully machined and semi-sanded French walnut checked  
stock and fore-end. You can be ready to shoot in 10 minutes!  
Stock and fore-end can then be finished at your leisure. Smooth,  
fast, absolutely dependable custom precision made action with  
lightweight forged alloy receiver. High lustre blued barrel and  
receiver. Easy take down, instantly interchangeable barrels.  
Guaranteed 100%: 12 gauge only in your choice of 30" Full  
Choke, 28" Full or Modified, or 26" Improved Cylinder.

Certified \$125.00 Value. Complete Shotgun Kit, only at KLEIN'S..... **\$69.95**  
Add only \$18.45 for extra barrel (state barrel length and choke).

## MARLIN MODEL 455! SAVE \$50.00!

Pay 10% down

Brand New!  
SPECIAL PURCHASE!  
KLEIN'S DOES IT AGAIN!

Marlin 455 Bolt Action repeating rifle with 5-shot box  
magazine, 30-06 caliber, FN Mauser action, Sako trigger mechanism.  
STREAMLINED MONTE CARLO STOCK WITH CHECK-  
PIECE DESIGNED AND MADE BY BISHOP. Finest quality Walnut  
throughout. Expertly hand-checked at grip and forearm.  
Medium weight stainless steel barrel, Marlin Micro-Groove rifling,  
Lyman 48 micrometer receiver sight. Rama front sight with detachable hood. High grade leather sling strap and swivels. All  
exposed metal parts blued. FN Mauser safety for use with low  
mounted scopes. Receiver drilled and tapped for scope. Over-  
all length 42 1/2". Weight 7 1/2 pounds. 100% guaranteed.  
First Quality. Latest 1959 Model. Certified \$149.95 **\$99.95**  
Value. Pay \$10.00 Down; KLEIN'S SALE PRICE..

Some as above with open Leif Sight instead of  
Lyman 48 Peep Sight. Pay only \$9.50 Down **\$94.95**  
Special: Lyman 4X Scope and Mount for Marlin 455... **\$49.95**

Cost British Gov't \$280.00 Each

## "1 of 1,000"

**SNIPER'S RIFLE & SCOPE**

Only 1 out of every 1,000 British Enfield No. 4  
rifles is selected for elite sniper troops. Each rifle  
is precision hand fitted, hand finished and fitted with  
specially processed marksmanship barrels to insure highest  
accuracy. Equipped with the finest English 4 power scope  
adjustable for windage and elevation—has detachable mounts and  
Post and Cross Hair Walnut stock with Monte Carlo cheek  
rest. 25 1/4" barrel, overall length 44". All in very good condition.  
Rifling is like new! Shipped Express Collect in  
special fitted wooden case. Certified \$280.00 Value!  
303 Br. Cal. Enfield Rifle and Scope..... **\$449.95**

Pay only \$4.50 Down, Balance \$8.90 a month for 5 months.  
Add only \$3.00 per rifle for personal selection by Milt Klein.  
(A few mint condition like-new Royal Enfield Snipers Rifles with  
scope, fitted wooden case, etc. are available at only \$59.95 com-  
plete). Also we have very very good Snipers Rifles without  
scopes, sale price at \$24.95, or select grade at \$29.95.

303 British Target ammo only \$7.50 per 100 rds; soft nose  
ammo \$2.95 for 20, Boyanet & Metal Scabbard 99c; Rod 99c.

## 30-06 AUTO

U. S. M-1 GARAND RIFLES

Official U. S. Rifle—Caliber .30-06  
KLEIN'S scores again with a limited supply of hard-to-get genuine  
U. S. M-1 Garand Rifles—the current rifle of the U. S. Armed  
Forces! Like new inside and out. All first quality. Every rifle  
headspaced and test fired. Ready for immediate shipment and  
immediate use! Specifications: Caliber .30-06, 8 shot semi-auto-  
matic, 42" overall, 22" bbl., slip semi-automatic. Gas operated.  
Unconditionally Guaranteed! Shipped Collect. **\$107.50**

PAY ONLY \$10.75 DOWN,  
KLEIN'S SALE PRICE.....

**GARAND SNIPER RIFLES!** Rarest gun in America! Like new  
throughout, match barrel, Combination tool and oiler included.  
Caliber .30-06, 8 shot, semi-automatic. Very **\$139.95**  
limited supply. Full Price, only.....

## 10 shot

303 ROYAL ENFIELD RIFLES

KLEIN'S has a limited supply of the famous  
British Army Enfields. All are famed for depend-  
ability, ruggedness and accuracy. When the supply  
runs low, prices will double and triple, at least! All are in  
good condition. 303 Br. caliber, 10 shot. Rush your order for:  
Weight 8 1/2 lbs. Sale Price..... **\$14.95**  
MARK I, No. 4—the (finest of all!) 25 1/4" bbl.,  
44" overall, 9 lbs. Sale Price..... **\$15.95**  
Special! \$5.00 value Boyanet and Metal Scabbard  
to fit 4 Enfield..... **99c**

KLEIN'S has 350 sporterized Enfield No. 4 Mark I Rifles  
available to early buyers. Stocks are cut down to light sporter  
style, very nicely done. (Boyanet and Scabbard free.)  
Sale Price, complete..... **\$24.95**

For Special Selection by Milton Klein, add \$3.00 per Rifle.  
303 Target Ammo. \$7.50 per 100, Soft nose \$2.95 per 20.

## 303 CALIBER RARE BRITISH JUNGLE CARBINE!

Royal Enfield

Pay Only **\$24.95**  
\$2.50 Down

303 British Caliber JUNGLE CARBINE Royal  
Enfield No. 5 developed specifically for rough usage and  
bitter fighting in jungles of Burma, Borneo and Malaya. Stream-  
lined jungle Rascal, light and compact sporter type stock.  
Built-in rubber recoil pad. 10-shot bolt action repeater. 16  
Brl., 7 1/4 lbs. Very good condition. **\$24.95**  
SALE PRICE only.....  
303 Target Ammo. \$7.50 per 100; Soft nose ammo. \$2.95 for 20.

# SAVE! U.S. ARMY .30/06 SPRINGFIELDS

4 GROOVE BARRELS

Weights only 8 1/2 lbs.

Exactly As Issued! Do Not Compare with Sporterized Imitations!  
Made for the U. S. Grant's Highest Specifications. No sharp  
rifle. All milled parts. Head spaced. Guaranteed NRA Very Good  
condition inside and out. Popular .30/06 caliber 5 shot, bolt action. Model 1903  
military numbers from Springfield Arsenal over 800,000 (Rock Island Arsenal  
over 285,000). (State choice.) Barrel: 24", 4 groove. Springfield sights are ad-  
justable for windage and elevation to 2700 yds. American Walnut stock, full length.  
KLEIN'S SALE PRICE..... \$44.50  
For only \$3.00 additional, Milt Klein will select an NRA Excellent Rifle for \$10.00  
extra you will get a like-new Springfield. Pay only 10% Down, or use KLEIN'S new Lay-Away Plan!

FREE! Springfield Rifle Manual included with every Springfield purchased during this great sale. Note—a few good,  
low number Springfield 30/06 rifles are available @ \$34.95 and \$39.95 (Select grade). Sling is \$1.95. Cleaning Rod 99c.

## SPORTERIZE YOUR SPRINGFIELD

Complete "Do-It-Yourself" Kit includes custom sporter Walnut stock, Lyman  
48 micrometer receiver sight, 16" barrel, 12" barrel, 18" barrel, 24" barrel, 30" barrel, 36" barrel, 42" barrel, 48" barrel, 54" barrel, 60" barrel, 66" barrel, 72" barrel, 78" barrel, 84" barrel, 90" barrel, 96" barrel, 102" barrel, 108" barrel, 114" barrel, 120" barrel, 126" barrel, 132" barrel, 138" barrel, 144" barrel, 150" barrel, 156" barrel, 162" barrel, 168" barrel, 174" barrel, 180" barrel, 186" barrel, 192" barrel, 198" barrel, 204" barrel, 210" barrel, 216" barrel, 222" barrel, 228" barrel, 234" barrel, 240" barrel, 246" barrel, 252" barrel, 258" barrel, 264" barrel, 270" barrel, 276" barrel, 282" barrel, 288" barrel, 294" barrel, 300" barrel, 306" barrel, 312" barrel, 318" barrel, 324" barrel, 330" barrel, 336" barrel, 342" barrel, 348" barrel, 354" barrel, 360" barrel, 366" barrel, 372" barrel, 378" barrel, 384" barrel, 390" barrel, 396" barrel, 402" barrel, 408" barrel, 414" barrel, 420" barrel, 426" barrel, 432" barrel, 438" barrel, 444" barrel, 450" barrel, 456" 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barrel, 6456" barrel, 6462" barrel, 6468" barrel, 6474" barrel, 6480" barrel, 64



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## GUN RACK

(Continued from page 13)

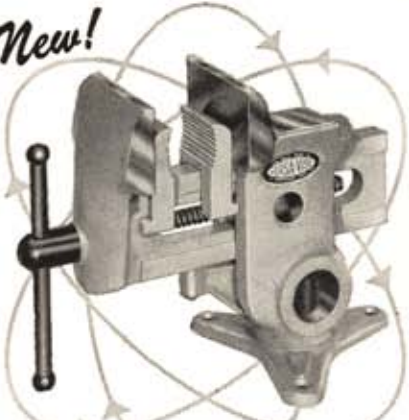
when we ran out of ammunition, the gun was cooled once by complete immersion in a nearby pond. The flesh-scorching heat of the exposed barrel end was at once cooled and there was enough heat left to dry the metal by itself. Such extra cooling is important with a gun arranged like AR-15: the styro-foam and fiberglass handguard passes very little heat and you hardly realize the temperature of fast firing until you inadvertently grasp the gun tube of steel near the muzzle!

AR-15 overall is much like AR-10, first publicly written up in GUNS Magazine back in March of 1957. Secret to the compact in-line construction is the gas bolt-unlocking design. The bolt carrier, needed to cam the multi-lug bolt head locked or unlocked, and to give it the inertia needed for recoiling function, does not have any gas piston. Instead, the gas is piped back along the barrel and bled into the bolt sleeve, into a blind hole. The bolt sleeve is thus "blown" to the rear, working the bolt and compressing the springs for counter recoil loading and firing function.

We noticed that later versions of AR-15 have the hook operating handle (originated on AR-10) changed to a finger grasping grooved piece at the back of the operating slide, immediately below the rear sight and above the stock comb. Next step logically is to close the exposed slide cut on top of the receiver. With only the spring cover ejection port, and the deeply shrouded magazine well, AR-15 will be one of the most dust proof of all military automatics.

(Continued on page 53)

*New!*



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## ARSENAL ON THE POTOMAC

(Continued from page 31)

New York warehouse.

Import of the Swedish M94 carbines presented a more unusual problem. The barrel length of these midget Mausers averages 17 3/4 inches—a bullet's breadth under the legal limit of 18 inches.

Treasury officials looked at the first batch of M94's to arrive, expressed sympathy, but stated they could make no exceptions. The sturdy Swedes must have longer barrels or be registered in the same manner as machine guns under the National Firearms Act.

Interarmco, with thousands of M94s on the way, had to find an answer and fast. To re-barrel the guns would mean raising their price; to sell them "as is" would invoke the prohibitive transfer tax.

A crash research program uncovered two methods, Heliarc welding and cold shrinking, to permanently affix blued tips to the carbine tubes. These tips bring the M94 barrel to 18 1/4 inches and make the gun legal. This is a comment, perhaps, on the logic of some of our gun laws.

To test the strength of these extensions, Interarmco employees blasted some 15,000 rounds of 6.5 x 55 military ammo through sample carbines. Firing was done at full speed from the hip, with carbines being loaded from 5-shot chargers. The speed and accuracy with which the M94 can be fired in this way is surprising.

A basic company policy is to provide a long-term ammunition supply for buyers of imported guns. Military ammo was imported in huge quantities for the Carcanos and Swedish Mausers and hunting loads are available from various sources.

British .303 ammo is manufactured by the four major U.S. manufacturers, but so far only in 215 gr. bullet weights. When supplies of the cartridge "dried up" recently in some localities, Interarmco contracted for a .303 soft point load in Finland. Loaded to U.S. pressure levels, these are now imported in 150 and 170 gr. bullet weights. Surplus military ammo, manufactured by both Winchester and Canada's Defense Industries Ltd. during World War II, is also available.

Exotic Interarmco items, which the U.S. shooter is lucky to see but unlikely to own, are the carbines, rifles and machine guns of the Armalite family. These gas-operated automatics are based on a lightweight action developed by the Armalite Division of the Fairchild Engine and Airplane Corporation. As now produced in Holland for overseas military sale, the AR-10 Armalite is a 6.9 lb. rifle chambered for the 7.62 NATO cartridge. On full automatic, it has a cyclic rate of 700 rounds per minute. Tested aircraft alloys are utilized to the fullest to obtain minimum weight.

Combining its flash hider with a unique grenade launcher, the Armalite can also be used for semi-automatic firing of rifle grenades—pushing up to six grenades skyward before the first one hits the ground. To simplify training and supply problems, the basic Armalite action (direct bolt operation by gas bled from the bore) is used for an entire weapons family. With a heavier barrel and bipod it becomes a machine rifle of the BAR type. Quick change barrels and a switch to belt feed transform it into a light machine gun. Mounted on special tripods,

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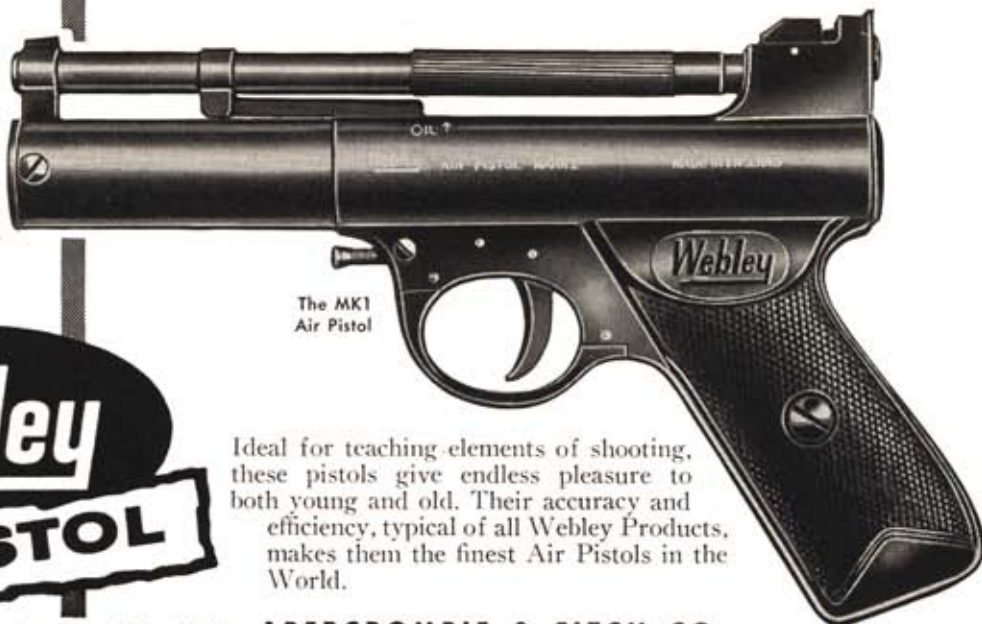
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with recoil mechanisms and sighting adjustments, it serves as a heavy machine gun.

A .222 version (the AR-15) is being tested by the U.S. Army at Fort Benning and in Alaska. In cold weather trials by the Arctic Test Board, it was reported to function well down to temperatures of sixty below. Also "in the works" are a .256 version and a .22 rimfire trainer. Plans for ArmaLite sports have lagged slightly behind military development. ArmaLite weapons are distributed by Interarmco in various parts of the world. The AR-10 has already been adopted by countries in Africa and South America, where samples have passed 7500-round acceptance tests. Irony as it may seem, our neighbors to the south may be equipped with such modern automatic weapons long before our own Army.

Other unusual arms distributed by the company are the Walther rifles and pistols, including the new lightweight Walther P-38, and the subcaliber conversion kits manufactured by Germany's Erma Machine Works. These are adjuncts, however, to its main trade in current and surplus military arms—a trade typified by its recent sale of No. 4 Mark II Enfields (an improved postwar version of the No. 4) to Kenya security troops.

Company officials believe there is great public demand in this country for low cost centerfire hunting, plinking and "knock-about" rifles that can be met best by the military surplus rifle. These weapons become available in widely separate corners of the globe, as Free World nations rely increas-

ingly on air and missile power, and it takes an international organization to acquire them at a cost which permits attractive U.S. sales prices.

To keep prices low to the public, distribution must also be on a volume basis. Interarmco has pioneered in this area, particularly in the channeling of rifles through department and chain stores. One famous New York department store, which took its first Carcanos only on consignment, sold 200 of them the first morning the gun was displayed.

Rifle sales through these channels have cultivated a completely new and enthusiastic market for firearms, and made our country more "a nation of riflemen" than ever. The benefits to national and civil defense are obvious. Benefits to the individual hunter, shooter and collector include stimulation of U.S. manufacturers to produce an ever-widening range of accessories and ammunition who in turn benefit by wider public acceptance of shooting as a sport.

There is abundant proof that these rifles do not "gather dust" in some neglected corner, but are used actively in sport and marksmanship training. Some 4,000,000 rounds of ammunition were sold in the past year for surplus firearm use.

Your next military rifle won't have INTERARMCO stamped on its barrel—the company is loathe to mar guns in this way. But the chances are it would not be in your hands without first having passed muster at an Alexandria, Virginia arsenal.

## DEER CALLING FOR SANER HUNTING

(Continued from page 21)

After 20 minutes I gave it up as a bad bet.

My next stop was along a rock ridge overlooking a brushy draw. Soon after I began calling, a half-grown yearling topped the hill to my right, stopping on the ridge. It stood there briefly, silhouetted against the sky, before the wind changed and it whiffed me. I could hear it crashing down the opposite side of the hill.

I continued to call. Presently I thought I glimpsed something down at the mouth of the draw. I paused, squinting to see in the fading light. The sun had slid behind the horizon only a few minutes before. Long, purple shadows darkened the countryside. I put the call back in my mouth, still watching the spot.

Then out of the corner of my eye I noticed movement again. I toned the call down softly, very softly. A dark-colored deer was slinking through the brush, moving as quietly as a ghost. I raised the binoculars dangling from around my neck and studied the woods. The deer stopped behind a bush and I could barely distinguish the outline of its hind-quarters.

For a few brief moments, everything seemed to come to a standstill. The late afternoon air was quiet. A few crickets were beginning to chirp. From somewhere in the far distance I heard a dog bark. If something didn't happen soon, darkness would put an end to the drama.

(Continued on page 46)

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BOB HUNTER GUNSHOP, Wall St. at 7th, Cordele, Ga.

(Continued from page 44)

On a gamble, I gave another short bleat of the call. The deer moved forward a few steps and stopped again. Its front-end was in a narrow opening. I put the glasses on it. The deer pivoted its head and I detected antlers. Then it turned and came toward me a few dozen feet, flicking its tail. The glasses pulled it in close. It was a forkhorn, fat and sleek.

As sort of an anti-climax, I eased the glasses down and raised my arms into an imaginary sighting position. The shot would have been a cinch with my pet .303 Winchester Model 88. The deer was no more than fifty yards away, standing like a statue.

Suddenly, something alarmed the deer. A short bound and it was swallowed by the brush. I glimpsed it through a few openings as it ran up the draw and disappeared over the hill.

Checking my watch, I discovered it had been slightly more than an hour and a half since I had left my parked auto. Had I been hunting, I would have had venison hanging in a tree that night. It seemed almost too easy, yet there was a certain challenge to calling the animals, a challenge I had never experienced on a conventional deer hunt. It added sort of a different perspective to a time-honored sport.

A few days later, I drove from my home

in Austin up to the Burnham brothers ranch near Marble Falls. The brothers had given me the call. They agreed that I had enjoyed exceptionally good success for a first attempt at calling deer.

Murry and Winston Burnham pioneered the development of a successful deer call. In the past, they frequently had deer answer the dying-rabbit call developed for predators. But there was no consistency. They figured the deer probably were coming to the source of the call more out of curiosity than anything else.

A successful deer call would have to be more of a sure thing. They started experimenting with various sounds. The one that seemed to work best, at least on the deer at the brothers' central Texas ranch, was an imitation of a fawn's bleat. On a subsequent trip to western Colorado, they took along the new-fangled call. It attracted deer fairly regularly.

But what was the merit of the call under true hunting conditions? This was the supreme test. Last fall, the brothers gave it a thorough workout with interesting results.

They knew about a large mesa of national forest surrounded completely by private land. It was closed to hunting, since the landowner would not permit hunters to pass through his holdings. For two years, the brothers bombarded the man with letters, begging permission to enter the virgin country. Last summer, for some inexplicable reason, the rancher honored the request and invited the brothers up for a hunt in the fall.

For an entire week they called deer, lots of deer, studying each buck carefully for a record head. At times, they had as many as four grandpa muley bucks answering the call simultaneously. There were many nice trophies that any hunter would be proud to hang on the wall of his den, but nothing of record proportions.

On the final day of their hunt, they still had no venison. The brothers reasoned it was time they collected a pair of bucks apiece to carry back to Texas to fill the deepfreeze.

It was soon after daybreak. They were sitting along a rock outcropping overlooking a grassy meadow. Winston blew on the game call while his brother Murry carefully scanned the terrain with his binoculars. Shortly, a lone doe came trotting up the meadow. A few minutes later, a trio of large bucks skirted around the opening, running half-hidden in the timber. They came to within a hundred yards of where the brothers were hidden. The lead one stopped in a patch of clearing, and Murry caught it high in the shoulder with a 90-grain slug from his .244 Remington.

The other two flared off to the right, bounding up the side of a mountain. Murry fired and missed, pumped in a fresh cartridge and tumbled another buck head over end. Winston caught the third one angling away and broke its back with the second shot from his .30-06 Remington slide-action repeater.

Soon after noon, Winston called up another buck and caught it standing broadside at a range of about two-hundred yards. He bowled it over with a 150-grain bullet at the base of the neck. It was the largest buck of the four, with an antler spread of thirty-two inches.

This week-long demonstration convinced me that deer can be fooled with an artificial call. But since then, I've found that calling



deer isn't nearly as surefire nor as easy as calling predators. One reason is that the caller is working with entirely different variables. A meat-hungry predator answers a call because it is fooled by the promise of an easy meal. But a deer . . . well, no one knows exactly why a deer is attracted by a call. The Burnham brothers have a few personal theories, however.

"That call that imitates the bleat of a fawn in distress seems to work good in the Southwest where coyotes and wolves eat young deer," Murry Burnham explained. "The frightful bleat of a deer being chased and pulled down by a predator will bring other deer running to the rescue, especially older deer to the aid of their young. This is one of our beliefs. Another is that some deer answer the call more out of curiosity than any other reason. We know of no other logical explanations."

Calling the deer is legal in most states, but it would be wise to check your own state laws. The brothers have found that effective calling is accomplished only in areas with bountiful populations of deer. For some unknown reason, the call doesn't work very well in areas that are sparsely populated with deer. The best time for calling, they've discovered, is between daybreak and sunup.

Calling supplements stand hunting very nicely. Locate yourself in a spot exactly as you would if hunting from a stand. Then try calling. All the basic requisites still are necessary—the wind in your favor, good concealment, and a location where you can watch a wide area.

The eyes of a deer are adapted to movement and it can be fooled, as can most game, by things which do not move. The brothers wear camouflage clothing, and they have found this to be sufficient concealment if they remain still. Even slow, casual motions don't seem to greatly alarm deer; only the sudden, jerky movements.

Different deer react in different ways to a call. Some come fast, oblivious to danger. Others circle warily, keeping to the protection of the woods. A doe will answer a call much more readily than a buck, perhaps because of the motherly instinctive reaction to the fawn bleat. Of course, deer are going to be more wary and easily spooked during the hunting season.

The one important thing to remember in deer calling is not to overdo it. When after predators, the hunter calls continuously. But for deer, call only enough to arouse the animal's curiosity. Call briefly, then pause and look and listen. Continue this procedure for fifteen to twenty minutes. If by then you haven't produced, look for another spot.

There is nothing mysterious nor difficult about calling deer. Commercial calls have put it within every hunter's ability. But many hunters have neither the patience nor temperament to become proficient at the sport. Game calling isn't a surefire system that dooms our deer herds to extinction. Rather, it is only a different and fascinating and challenging approach to our most popular big-game hunting sport.

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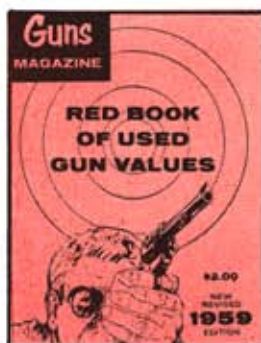
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## TUNE-UP PRACTICE FOR BIG GAME TARGETS

(Continued from page 24)

still hunter, stalking my small game to ranges very like that obtained in heavy deer cover. When I am spending a day brushing up on my long range shooting, both the hunting and rifle is different. I ease around those open hills, using my binoculars to glass the rock outcroppings, looking for those brownish-grey squirrels in the grass and on the rocks. Quite often I spot them at the alert, as stiffly erect as a Coldstream Guard in Her Majesty's Service. Sometimes I spot them feeding in the elk clover on the hill-sides.

I drop into a rock-steady position, usually sitting, such as one might normally use for a long range deer shot, and I touch off my shot. If it is good, I am elated. If I miss, I do plenty of soul searching to find the cause. Both the practice and the soul searching make me a bitter big game hunter.

Here, the understudy to my big rifle is entirely different. For long range big game shooting, I like a bolt action. My favorite at the moment is a .300 Ackley Short Magnum

built on a Husqvarna action. My understudy for this is a Marlin Model 322, .222 Remington caliber. My favorite ground squirrel load is a Sierra 50 grain Spitzer in front of 23½ grains of 3031. At my bench rest I have little trouble keeping five shots in a two-inch group at two hundred yards. I sight this rifle in to hit point of aim at two hundred yards. This puts my bullet about 2.5 inches high at 100 yards, and only seven inches low at 300 yards.

My sighting equipment is a Bushnell 8X scope, with a fine crosshair reticle. With this combination of scope and rifle I can take a ground squirrel with a center hold out to 250 yards. I am reasonably sure of a kill, with just a bit of Kentucky elevation out to three hundred yards.

This Marlin .222 has the same trigger pull as all my big game rifles. It has exactly the same stocking. The only difference between it and the .300 Short Ackley Magnum is on the scope reticle. On this big game rifle I use a post and crosshair, because I often

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use this rifle on deer under extremely poor light conditions, and tests have proved the post superior for late evening shooting. However, I have recently made a change in the scope on the .300. Now it is equipped with Bushnell's new 4X scope which gives a hunter the choice of either a crosshair or post—the crosshair for long range precision shooting, the post for late evening shooting while watching feeding grounds. I haven't, as yet, used this combination on game, but field tests here in the deer woods, under all light conditions, convince me that this is the best all-around scope I have used.

Two questions come to mind in this matching. You will note that much of my summer shooting is devoted to improving my woods score with lever action rifles. In addition, there is the bolt action precision shooting. Doesn't this work at cross purposes? Wouldn't it be better to stick with one type action?

In some cases, perhaps most, hunters would be better served by just one matching set of actions. But I have found it quite possible to build two distinct shooting techniques, independent of each other. I find that, in using my bolt action rifles, the techniques of loading, even aiming and firing, are just as subconscious, after training, as that acquired with the lever action. Associations account in large measure for this, I am sure. I simply don't reach for a lever on my bolt action for a quick reload, nor for a bolt on my lever action, under the stress of field shooting.

Quite often, I use the bolt action in woods hunting, even though I prefer the lever actions. I have taken running deer time after time with a bolt, where one got the shot or lost the opportunity within seconds. This shooting convinces me that only the segment of training useful for any one shot is used, and that subconsciously.

But even with all this, I believe that, in any one set of matching rifles, from plinking to big game, a hunter should stick to one action. Fortunately, this is easily accomplished with the present selection of factory rifles available. Indeed, Remington has made

a special effort to match their rifles from the .22 rim fire on up to their big game calibers. Their Model 721 and 722 big game rifles can be matched very inexpensively with their Model 511 .22 rimfire. Their Model 760 Pump Action big game rifle is a natural for matching with their Model 572. Their Model 740 autoloading big game rifle can be matched with their Model 550 .22 rifle.

The essential thing is to have a good gunsmith bring those trigger pulls to an exact weight, not less than 3½ pounds, short and crisp. Stocking should also be modified, and the sighting equipment should be matched.

Very much the same matching of .22 caliber understudies and big game rifles can be obtained in the Winchester line. A Model 70 big game rifle is easily matched by one of their bolt action .22's.

In the Marlin line, a hunter is particular fortunate in their Model 455 big game rifle, with the Model 322 .222 caliber as a matching understudy. Dropping down in caliber, there is another matching combination in their Model 80L as a .22 rimfire understudy. If hunting is confined to the woods, then the 336 lever action Marlin in .35 caliber is fine with the Model 39 lever action .22 as an excellent understudy.

No matter what rifle type you favor for big game, it is not complete without this understudy for off-season shooting. Even at the expense of reiteration, see that it is matched *exactly* in stocking, trigger pull, and sight equipment. Again, concentrate on the type of field where you turn in your poorest performance in big game shooting. Usually, this is the shot at running game, offhand, where time is of the essence.

I have written about Columbia Ground squirrel shooting. If you live elsewhere than in the west, you may need to choose some other summer quarry. That doesn't matter. The essential thing is to discover what your locality offers in the way of small game shooting during the summer, then take advantage of it. No one can shoot enough big game to develop the skill needed for clean kills. This must be acquired *before* you are under the compelling necessity of making a shot at a trophy big game animal. And there is no better way of acquiring this skill than by using understudy rifles on small game and pest. This summer tune-up for autumn big game shooting pays off, and big.

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## Don't Miss This MOST-SHOT-AT TARGET

(Continued from page 19)

overhanging banks matted with locust and sassafras sprouts and wild grape vines and brambles. Waymon coaxed Rambler down into the ditch and—that did it. Two cottontails busted out from under one stretch of overhanging ditch bank and took off, one right behind the other. Lou and Sue all but fell into the ditch to join the red-hot chase. At the end of the long ditch where it tapered out to level ground we expected the cottontails to separate, but no such thing happened. We saw them cross the corner of an open field, and Waymon said, excitedly, "Hope they stay together and circle back!"

Believe it or not, they did. Waymon got back down into the ditch, while Fred took a stand on the bank. I took my stand up-ditch near the honeysuckle thicket.

The crooning beagles made a wide circle and finally headed back toward the honeysuckle jungle. I saw the two bunnies, still only three or four feet apart, long before they were within shotgun range. What made them stick together like that I will never know, but they did. And they skirted the jungle on my side, within easy gunshot range. Just before the leading cottontail disappeared over the edge of the ditch bank, I let him have it. He disappeared into the ditch, and I had to get off my second shot in a hurry, so fast that I wasn't too sure that I had hit that second flitting target. But when I got to where I could see down into the bottom of the ditch, there they both were, dead and waiting. I had scored a fast double; something rare indeed in cottontail hunting.

As soon as the beagles came in, we put them on leash and headed for my house for sandwiches and coffee. And during the breather we got to comparing notes. Fred and I have been hunting small game every season for more than 25 years. We grew up in the same Tennessee hill country, back when not many rabbit hunters used dogs of any kind. They didn't need to. Any one could go out and walk up fifteen or twenty rabbits in half a day. Kids used to hunt them for pocket money—a nickel a rabbit at Joe Bailey's general store. Blackpowder shells (Western New Chief) were thirty-five cents a box then, and the fifty cents or so

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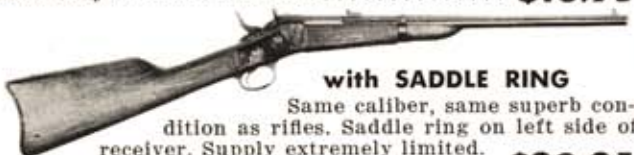
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we could make in a day's hunting was real spending money back in those days, to say nothing of the fun. I was the proud owner of a neat little 20 gauge Ithaca double at the time, and I considered it a real whiz of a rabbit gun.

Fred's dad had an old hammered 12 gauge double that kicked like a Texas steer, but it was a dinger of a rabbit gun, too, back in them days. "And every fall and winter I would set out a string of box and board traps for cottontail. I earned most of my fall and winter spending money that way," Fred remembered, and it was real fun. Us kids weren't out kickin' up trouble like some today; we were too busy.

That afternoon, we headed for some more thickets and an old abandoned farm house that I had spotted. Fred coaxed Sue under the floor of the old house, and she started things popping. There was three cottontails under the floor of the old shack, and they took off in high gear. Nobody got a shot, or even tried to, Lou and Rambler and Sue took off after the same bunny, and I do not recall ever having heard any sweeter beagle music. The cottontail finally circled back, somersaulted as Fred's 16 gauge cracked, and the beagles took off again on the trail of one of the other cottontails. This one was a long distance runner, and we got plenty of beagle music before Waymon finally got in the lucky shot.

The beagles ferreted two more bunnies out of a honeysuckle tangle before we decided to call it a day. Waymon got one of them, and the beagles were still chasing the other when we decided to call it a day. Signalling them in off the trail with my hunting horn was a fitting climax for a dandy hunt. By hunting the right places, we had hit the jackpot late in the season, when "the rabbits were all shot out." You can do the same.

We were all using our regular quail guns on the cottontails. Only rarely do I use anything else. When hunting with beagles, most of the shots come at close range 25 yards or less, so there is really no point in changing guns. I simply use a somewhat heavier load than I use on bobwhites, and I prefer No. 6 or No. 7½ shot for rabbits instead of the No. 8s I use on the quail. If your quail gun is light for easy carrying and fast pointing, so much the better, because you may do plenty of walking in rough, tangled country in this type of hunting, and your shots will be at fast-moving, erratic targets. Likely enough, you'll miss as often as you do at birds. But who cares? The hunt's the thing — and half the hunt is kidding the other fellow about his misses.

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(Continued from page 42)

One critical defect now, we understand, being remedied is the fact that you cannot force a bolt closed on a bent or dirty round. If, as happened to us when we were shooting our AR-10, the extractor should tear through a soft rim and you have a round partly stuck in the chamber, it is a great comfort to be able to hammer the bolt closed (as in the M-14 or M-1) and simply fire the damn thing out. But AR-10 and AR-15 as they now stand require field stripping the bolt group and punching the round out from the front.

And AR-15's conventional box magazine, after all the years since James P. Lee introduced it in 1879 (or Paul Mauser, depending on what patent suits you read) should be about due for a face-lifting. Sights also need considerable thoughtful study in terms of interrelationship between gun and shooter, as does the whole subject of automatic rifle stock design and shoulder handling. Drawing board styling is not enough. AR-10 and AR-15 are not more advanced, in this respect, than the straight-line Johnson stock of 1938. When AR-10 and AR-15 go into production, these problems will be studied.

But these neat assault rifles are beyond question at this writing the best thing in basic principle available this side of the Iron Curtain today. The American Armalite designers are on the right track. As more gun-wise gun bugs bend their talents to answering some of the dynamic problems only extensive firing with automatic rifles can reveal, we may develop further improvements or even whole new designs, to make America's guns the best in the world. 

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## ELMER KEITH SAYS

(Continued from page 8)

grease known as the Ted Williams Gun Grease. It is packaged in plastic tubes with screw cap and tiny spout dispenser. We have found this an excellent gun grease, quite unaffected by changes in temperature and well packaged for the hunter or fishermen. It has worked very well in our Pfeuffer Supreme casting reels as well as for gun lubrication or bore protection from rust. Fulcrum has long manufactured and marketed a very high grade oil suitable for the finest time pieces as well as guns and fishing reels, and the new grease completes their line.

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For 40 years, the .44-40 Winchester rifle and carbine and .44-40 Colt sixguns have been about as standard in South America as the .30-30 is in North America. The .44-40 ammunition is also easily obtainable there. For this reason, many going to South America for a hunting trip have employed the .44-40 rifle and sixgun. About the heaviest game there is the tapir and the jaguar, with some crocks. An even better combination would be the .44 Magnum revolver, either Smith & Wesson or Ruger, and a Model '92 Winchester rebarrelled by Ward Koozer of Douglas Arizona for the .44 Magnum cartridge. The ammunition, however, would have to be carried with the hunter.

Most shooting is at close range, and such a combination is ideal for jaguar, small deer, and similar game. Don't underestimate the big cat, however, for he will fight you like a leopard and is a larger, heavier animal. If shotguns are taken and used, they should be sighted for slugs and a supply of these taken along, in addition to the shot shells.

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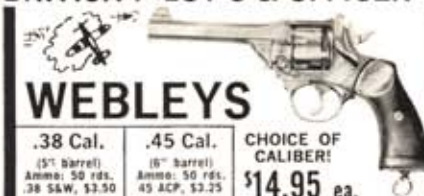
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## .44 Magnum Velocities From Carbine

Ward Koozer of Douglas, Arizona, who  
rebores and rebarrels 1892 Winchester car-  
bines to .357 and .44 Magnum calibers, re-  
ports chronograph velocity tests of the .44  
Magnum. Three shots with Peters factory  
ammunition from this 20" barrel carbine  
went, respectively, 1900, 1975, and 1950 feet.  
Three shots with my reload (250 grain Keith  
bullet and 22 grains 2400) went 1825, 1810,  
and 1800 feet.

Based on sixgun velocities, this represents  
a gain from 1600 to 1900 feet for the factory  
load, and from around 1400 feet to 1800 feet  
for my reload, due solely to the longer barrel.  
The reloads were not crimped; if they had  
been, I feel sure that velocities would have  
been considerably higher, as a good crimp  
aids in initial combustion of 2400 powder.  
For the man who cannot shoot a sixgun and  
wants a very light carbine for the .44 Mag-  
num, this is the answer.

## New Barrels, Forends, Ejectors For Damascus Barreled Guns

Rodney Day of Haverford, Penna., has long  
conducted a service for the owners of fine old  
Damascus-barreled double guns. He can  
have fine old Parkers, Ithacas, or English  
guns rebarreled in Belgium with finest mod-  
ern steels and either plain or ventilated ele-  
vated ribs; can fit non-ejector guns with  
ejectors, and can furnish new forends com-  
plete.

This is not worth while for cheap guns,  
as barrels run around \$125 to \$150 for the  
ventilated-rib variety; but for those having  
very high grade old Damascus doubles, it is  
definitely worth while and they will make  
fine modern guns with the addition of modern  
barrels. I used a D.H.E. Parker one fall on  
mallards, one that Day had rebarreled, and  
never shot a better shooting gun.

## Wide Triggers & Bisley Type Hammers For the S.A.

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Single belt and holster with nickel-plated buckle and snap-away safety strap (shown above).....Tan \$26.75  
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that is much lower and easier for the small hand to reach. He also can rebuild the trigger to a wide shape that contours the finger, and will fit new barrels and cylinders and S & W-type rear sights and ramp front sights to Colt and G.W. revolvers. The change to Bisley type hammer and wide trigger, combined with adjustable target sights, makes a great improvement in the old fixed-sighted Colt and G.W. Revolvers. Write Schaller for prices.

### 7mm Loads

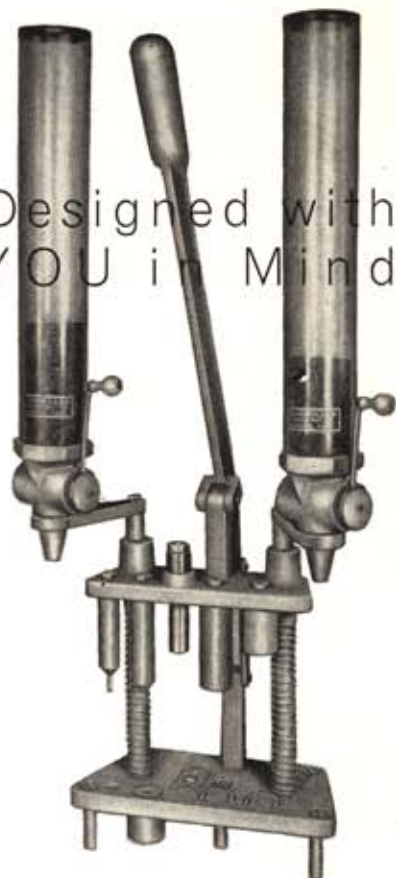
For the 7 x 57 mm Mauser, one of the finest long range deer loads we have used is the Sierra 160 grain B.T. backed by 50 grains of 4350 Dupont for around 2850 feet velocity. It is also a very good load for all the lighter big game, such as deer, sheep, goat, and antelope. Use the 160 grain Nosler bullet if you want more penetration. For picked shots at larger game, when a heavier rifle is not available, the 175 grain Nosler Partition jacket bullet backed by 47 grains of 4350 is even better. These loads should be worked up carefully in the individual rifle, as a tight barrel and chamber can cause excessive pressure. Start lower and carefully work up any such top loads in any rifle.

### Loading Data for .44 Special and .44 Magnum

E. M. Yard, 110 Kensington Ave., Trenton 8, N. J., has a small booklet on loads and velocities for these two cartridges; but he does not give pressures, which would be very enlightening and are also needed. Some are my old loads, and some are by my friend Eric Farr, with whom I worked many years ago.

I note one error in velocities of one of my loads. 18.5 grains of 2400 with Keith 250 grain bullet, should give 1235 feet velocity with only 20,000 pounds pressure in the old balloon-head type case, instead of 1130 feet velocity as quoted in the booklet. This is still the most practical and lowest pressure heavy load for the .44 Special. The booklet sells for six-bits, and is worth it. It also contains graphs made from above loads. Mr. Yard says further sheets will be added to the booklet as he works out more loads. Being old fashioned, I use just two loads in the two calibers: 18.5 grains 2400 in the .44 Special (in old-style cases preferably), and 22 grains 2400 in the new .44 Magnum—both with 250 grain or 235 grain hollow-point bullets of my design, sized .429 and cast one to 16 tin and lead or harder.

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22 KINGMAN, ST. ALBANS, VERMONT  
CANADIAN BUYERS: Write or see the largest display at 1011 Steury, Montreal, Que.

## Bolin Custom Gun Rigs

For some time we have been testing some quick draw outfits made by Edward H. Bolin, Saddle Makers and Silversmiths of 931 North Highland Ave., Hollywood, Calif. These are made from the very finest of leathers, hardware and craftsmanship. Bolin makes and has made these quick draw rigs on almost every conceivable style, to order, for the most fastidious of quick draw artists. Belts can be had plain and straight or shaped to fit the hips and with short or long shape drop loops for the holsters, or common belts for use with holster looping over the belt. Any angle or position of gun can be had, high, low or even cross draw can be made to order. Both belts and holsters of his better outfits are all full lined. Some holsters are blocked inside to throw the butt of the gun outward away from the body, while others are made to carry the gun parallel with the body and still give ample finger clearance between butt of gun and shank of the belt. Holsters are cut low to leave the hammer and trigger guard in the clear and all these holsters we have tested were a rather loose fit on the gun, to facilitate speed drawing. However, they are all equipped with some kind of safety strap to make them practical, usable outfits in the hills or on a horse as well. He makes and has made every conceivable style of safety strap, from the old cowboy thong loop to hook over the hammer spur to Capt. Hardy's little strap with a hole in it through which the firing pin of the Colt single action could be let down and thus lock the gun in the holster and with six rounds safely carried in the gun, to the glove fastener straps and, best of all, his snap away safety strap.

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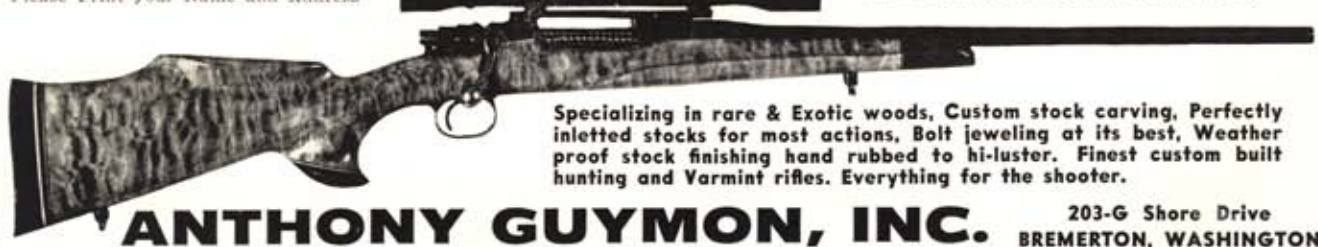


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TROPHY KNIFE is beautifully designed, superior quality belt knife. Manufactured by J. A. Henckels Twinworks of Solingen, Germany. Heavyweight 5½" tapered blade is fine Solingen steel with razor sharp edge. Thick, comfortable, genuine stag horn handle and brass guard give positive grip. Belt sheath richly polished, genuine cordovan leather. Blade length 5½"; overall length 10"; weight 7 ozs. Sells for \$9.75, postpaid, from Norm Thompson, 1805 N. W. Thurman, Portland 9, Ore.



FINE AUTOMOTIVE VALUE for sportsmen is the hand crafted six passenger, 4 door Toyopet Station Wagon. This model will be placed in your local dealer's showroom soon by Toyota Motor Distributors, Inc., 6032 Hollywood Blvd., Hollywood 28, Calif., or 2906 W. Peterson, Chicago, Ill. Toyopet for 1959 is now entering the American market direct from Japan. Overall length of Station Wagon Model No. RS 26V is 172.4"; overall width, 66.1"; height 61.0"; weight, 2833 lbs. Top speed 80 mph, fuel consumption 33 mpg.



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## HANDLOADING BENCH

By KENT BELLAH

**S**WAGING SUPERIOR rifle bullets was sold hat to riflemen long before the invention of the handgun bullet swaging dies. The advantages over cast pills are obvious. Compressed lead is more dense. Bullets are



more uniform in weight or dimensions, with internal air pockets and other defects eliminated. Swaging is clean and fast, with few rejects. Pills are ready to load when they drop from a die. Being shot "dry," grease can't melt out to kill some of the powder or primer. Loads are as stable as center fire rifle ammo. Being "swaged up" rather than "sized down" eliminates any deformation, and the time and cost of lubricating and sizing. The "sizing up" causes a jacket to grip the core tightly, rather than spring away from it when "sized down."

Inspection time is reduced to a mere glance or feel. A custom maker in Texas employed a blind man who produced bullets as good as other workers and at a faster rate. Weight can be held within .2 grain, to eliminate weighing and sorting. Soft, swaged jacketed bullets have set world record groups in bench rest competition. In handguns, they have superb accuracy, higher velocity, and far more shocking power than any others. Terminal energy is greater, and the actual shock is far more than indicated by energy figures. No alloy has the shocking power of soft lead on any handgun-size game.

Cast bullets with internal or external defects are a major cause of flyers and large groups. Many shooters consider cast loads inferior to factory fodder and suitable only for plinking. True, the "average" is imperfect, but top quality loads equal or exceed some factory fodder in some calibers.

Hand swaged bullets have an extremely high average quality, and are definitely superior to all others, including factory swaged bullets with gas checks or jackets, or a naked alloy, that is roughly handled in production. They are "so round, so firm, so fully packed . . ." Handgun pills are easiest to

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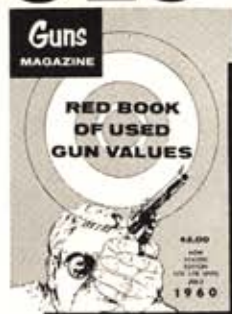
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make, and dies cost less, due to their design. Many firms make various dies for various type bullets. These include the California firms of Lyle Corcoran, Hollywood Gun Shop; Lachmiller Engineering Co., of Glendale; Frank Hemsted, Culver City; and C-H Die Co., Los Angeles 54, will soon have their version. Adrian Bahler, of Bahler Die Shop, Coos Bay, Oregon, has added handgun dies to his excellent line of rifle bullet dies.

Jim Harvey, Lakeville Arms, Lakeville, Connecticut, started the ball rolling, or rather the bullets, by designing the first practical dies in 1951. Of a dozen experimental designs, and five types he marketed, or used in making custom bullets, one is especially good for individuals. It's also fast enough for clubs, police departments, or custom loaders.

It's the new Harvey Lever Ejection Die, at \$39.75 with a Solid Point Ram, or \$43.75 with a Hollow Point Ram. The ram is a nose-punch, with a bleed-off hole to extrude excess lead, to insure uniform weight bullets. They can be made with jackets, gas checks or zinc washer bases. As with rifles, jacketed pills give higher velocity, and I consider them best. Lakeville Arms sells these under their trade name "Jugular" as "The Most Deadly Bullets." Many custom loaders make and sell similar types under other names. Mason Williams, Stanfordville, N. Y., is licensed to make and sell the zinc base Prot-X-bores and Jugulars as a jobber. The trade names are registered, but you can make identical bullets.

As the Lever Ejection Die is new, and one of the simplest, I'll describe its operation. With a little modification it applies to all other types and makes. You'll need a supply of the proper caliber jackets for these popular bullets, and some cut wire or cast slugs. All die makers supply core cutters for 5/16" lead wire for .38-357 pills, and 3/8" for .44 or .45 calibers. All Harvey dies can be had with a Base Ram (or extra Base Ram) to make zinc base Prot-X-bores if desired. Core cutting is fast, with weight easily adjusted. I highly recommend the same grade of wire used by bench rest rifle shooters. This is soft, unalloyed lead, smooth and round. Bahler, Harvey, and all other die makers who have made extensive tests all recommend it.

Cast cores can be made at a considerable saving, using Lyman or Hensley & Gibbs slug moulds. Bullet moulds are not suitable. Slugs are fast and easy to cast as they are not grooved and drop freely. You can cast up to 1,200 cores per hour with 4-cavity H & G moulds and a SAECO or Lyman Thermostat Controlled electric furnace. Production is slower with one or two cavity moulds. If scrap lead is used, skim the pot before fluxing to remove alloys or impuri-

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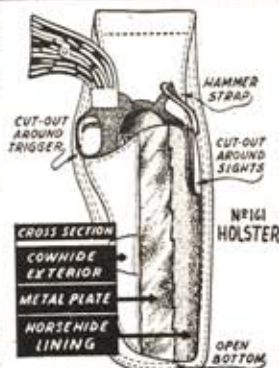
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ties that float to the surface. The best scrap is sheet lead, cable sheathing or pipe, generally as pure as commercial pig lead.

Lever dies are screwed in any standard thread press exactly like loading dies. Bullet weight is adjusted by the depth of the die in your press, and is held with a lock ring, like loading dies. The ram is inserted in a shell holder like a shell, and locked. Swaging "The Most Deadly Bullets" is exactly like seating bullets in cartridges.

Insert a slug in a jacket, place the slug on the ram, and operate your tool handle. Press the die lever and catch the bullet in your hand. It's that simple! You'll make about 350 bullets per hour in these dies, worth about \$20 for .38-.357s. Cost is about \$6 using cast cores of scrap lead. Cut wire costs about one cent more per bullet, or \$9.50 for 350 pills. Either way you'll save or make considerable money on superior bullets.

Dies are screwed in deep enough to form perfect bullets and extrude a tit of lead. The bleed-off hole takes care of any normal slug variation, I set dies to bleed-off less than 1 grain of lead, but they will extrude as much as 10 grains excess. You'll notice the "feel" of an underweight core in swaging. The imperfectly formed bullet nose is instantly detected with your finger, or by a mere glance. I determine bullet weight by weighing a slug and jacket, less .5 to 1 grain.

No lube is needed, but I put a few jackets on a lightly oiled cloth after swaging a few hundred pills. This is a habit, and a trace of oil doesn't hurt anything. Good dies last almost forever with proper care. Harvey says he runs nearly a million bullets in one set, far more than any rifle die. His Bolt Action Dies are more expensive and slower to operate. They eject from the top, with the nose punch at the top. They are better for heavy jacketed rifle bullets for his line of 429 "Maglaska" rifles. His Automatic Ejection Dies are best used in a R.C.B.S. Model A press mounted horizontal. They are for mass-production by skilled custom loaders, and will kick out 500 bullets per hour.

(Continued on page 65)

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9mm	14	2 lbs.	74.50
Cased Set of Three..... 148.50			

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(Continued from page 62)

Bahler and Lachmiller dies operate somewhat like Harvey Lever Ejection, except a lever is not provided. If bullets are difficult to eject by hand, tap the ejector with a mallet. Bahler dies are available with several nose shapes, the semi-wadcutter being my choice. Bahler plans to supply jackets as soon as he can tool-up, being quite busy with making his fine rifle bullet dies at present.

Lakeville jackets are not even kissin' kin to the old .44-40 type, or a metal case .45 ACP. Made of specification gilding metal, they are trimmed to uniform length and the mouth camfered. After drawing, they are annealed to remove temper, then bright dipped. Soft gilding metal acts as a lubricant, eliminates copper fouling, and prevents swaging a sharp edge on bases. They fill grooves perfectly when fired. A .38-357 is .018" thick, .44's .020". Barrel life is many times the 5,000 rounds allotted a .45 ACP. Mason Williams fired over 15,000 hot loads in one .44 that shows no wear at all. Mace estimates bore life will be "well over 50,000 rounds." A shooter employed by a large handgun maker said he can't detect any more wear than with naked alloy bullets, and one barrel should last the average shooter "two lifetimes." Bore wear is negligible with Jugular or Prot-X-bore bullets.

Prot-X-bores are for moderate velocity or targets. Some target shooters and police departments use them because zinc bases are cheaper than jackets. The zinc washer makes a perfect base, undeformed when fired. Like Jugulars, they use an unalloyed lead wire or cast core to increase shocking power for a given weight and velocity. Moulds are made for casting these bullets ready to shoot, but the swaged type runs more uniform. Before shooting, bores must be perfectly clean, and broken-in with a few light loads. I prefer the higher velocity jacketed pills.

I used some of the first Hollywood dies that came out in 1954, to make uniform bullets with a gas check base. A 142 grain pill had good accuracy at 870 fps in .38 or .357 guns. These are not for high velocity. With

no grease groove and shot without lube, you must use 10% tin alloy wire slugs. The dies are for use in the popular Hollywood Senior press, or the Super Turret with extra tie rods. Alloy wire softer than 10% tin, or with antimony mixes will not be satisfactory with this gas check base.

Uncrimped jackets may occasionally shed in flight at Hi-V, which opens groups. When shooting on water, a nearby splash indicates a shed jacket. Harvey Cannelure Dies make perfect crimps, like factory Jugulars, about 600 per hour in a standard press. Annealed Jugular jackets reduce "springback," so you can often omit the operation. The trick is to seat the bullets so the jacket mouth is about flush with the case mouth. One exception is a 156 grain pill in .357 cases for use in Colt guns. It must be crimped ahead of the jacket to stay within cylinder length.

Lighter bullets can be driven at over 2,000 fps in .357 or .44 Magnums. My favorite .357 load is a 127 grain S.P. ahead of 19 grs. 2400 for 1,950 fps. What it does to var-



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.44 Specials perform beautifully with this bullet, but some people like the slower 265 grain, or the faster 170 grain H.P. Granted, the light pills have faster blowup and less recoil. The 265 grain lacks velocity for fast blowup, but might be better for extremely deep penetration on game larger than usually hunted with a revolver. The 220 grain is my favorite for any use at normal handgun range. As .38 Specials are not Hi-V guns they handle the slower 156 gr. S.P. well, but some lads use a 114 gr. H.P. to get adequate blowup for clean varmint kills. Hollow points are not necessary in Magnums if M.V. is over 1,700 fps with soft, unalloyed lead.

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