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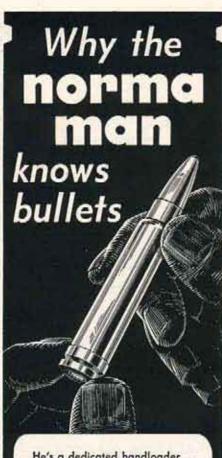
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LAWMAKERS

Congressman George P. Miller
Comm.: Science & Astro., Merchant Marine & Fisheries
8th Dist., California

I AM AGAINST the crosion of the rights guaranteed us under the Constitution. I believe the Second Amendment is as significant today as it was when the Founding Fathers wrote it... The art of using guns is one that has afforded the people of this country great satisfaction. It is the basis of a great deal of our recreation and the knowledge of firearms has proven itself valuable in time of war.

Congressman Clement J. Zablocki Committee on Foreign Affairs 4th District, Wisconsin

WE MUST INTERPRET the provisions of the Second Amendment in the context of the historical conditions... The Second Amendment was... to prevent such abuses as were perpetrated during the 18th Century by the Kings of England, who disarmed the colonists and forbade them to bear arms. It was to provide the means of checking any unconstitutional usurpation of authority by the central government. Although we must remain ever watchful to prevent the usurpation of rights reserved in the Constitution to the States and to the people, it would seem to me that, during the 184 years of our nation's existence, we have developed some means more effective than muskets to achieve those goals. While I am very much interested in guns, and own guns myself, I would not be apt to encourage the bearing of arms by our citizenry as a check on the activities of the Federal government. In this instance, I believe that the voice of the people is stronger and more effective than firearms.

Senator Gale W. McGee Committee on Appropriations Wyoming

THE FACT THAT American citizens have enjoyed the right to bear arms throughout our history is a remarkable testimonial to the strength and stability of our democratic institutions. There are few nations where this right has been preserved so long and, where it has, it has become the symbol of responsible citizenship. The groups which cry for laws which would prevent the responsible citizen from bearing arms evidently do not realize that the danger to a society which stems from firearms is immensely increased when honest citizens are disarmed and prevented from learning enough about firearms to handle them safely.

Congressman Neal Smith 5th (Des Moines) Dist., Iowa

THE FRAMERS of our Constitution meant to retain to the people the power to overcome any leaders who might try to set themselves up as dictators in our country. These rights would be greatly diluted if either the military or the law enforcement branch were given a monopoly on firepower. However, there was never any intention to provide criminals, mental incompetents, or anyone with a legal right to conceal weapons. I think everyone has a constitutional right to own firearms, but that the local officials may reasonably find that the protection of other individual rights requires that no "unbroken," concealed gun be carried in populated areas.

Congressman Jack Westland Comm.: Interior & Insular Affairs, Atomic Energy 2nd Dist., Washington

THIS "RIGHT of the people to keep and bear arms" is so deeply embedded in the philosophy of Americans that it's difficult to imagine this right being challenged. Yet I know this right has been and probably will be challenged. I suppose one of the greatest days in the life of an average boy is the day when he gets his first gun. Whether it's a 22 or a BB gun, no matter, it's his and his alone. Then his dad teaches him bow to handle it, the precautions he must take and the proper care of the weapon. These are great days. The subsequent joys of hunting are things to be remembered forever. "Infringe" this right? Not me!

Congressman Howard W. Robison Comm.: Public Works, Small Business 37th (Owego) Dist., N.Y.

I AM INCLINED to feel that "militia" as used in the Second Amendment connotes a civilian armed force which has now developed into the National Guard. Note also that the drafters of the Amendment included the words "well regulated," which implies that such an armed citizen force should be definitely controlled. This is not to say, however, that I believe further federal restrictions should be placed on the possession of firearms which are kept for sporting use or needed for personal protection.

Readers' Note: All Gongressmen may be addressed as "House Office Building," and all Senators as "Senate Office Building," both at "Washington 25, D. C."

Guns

FINEST IN THE FIREARMS FIELD

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THE COVER

Les FieldLegislation

Chrome-plated Colt .45 single action with Chrome-plated Colt .45 single action with mother-of-pearl grips channel-worked with turquoise by Danny Simplicio of Gallup, N. M., is owned by Jim Price of Albuquerque. The figure is a Zuni religious symbol, is called "the Rainbow Man." A Navajorug is used as background. The revolver carries Serial No. 175315 and a last patent date of January, 1875. Photo by Harry Kinney, Albuquerque, New Mexico. Kinney, Albuquerque, New Mexico.

IN THIS ISSUE

shooting	
THE GUN BEHIND HOLLYWOOD HEROES. John Lachuk YOU TOO CAN BE A BULLET ARTIST. Clyde Howell NEWSPAPER BACKS COPS IN WAR ON CRIME. Robert V. Little THE .264 WINCHESTER MAGNUM. Elmer Keith	22 27
special CASTRO'S SECRET ARMS FACTORY Robert K. Brown	19
legislation	
THE PEOPLE vs. THE SULLIVAN LAW	24
guns americana	
THE MISSING LINK IN RAPID-FIRERS Daniel F, Ford THE GUNS OF THE LITTLE BIG HORN Peyton Moncure	
hunting	
HOW FAST CAN YOU HIT HIM? Howard C. Sarvis	31
workshop	
HOW TO ACCURIZE YOUR M-I RIFLECharles R. McClelland	36
departments	
KNOW YOUR LAWMAKERS GUNS IN THE NEWS ELMER KEITH SAYS. Elmer Keith	6
CROSSFIRE GUN RACK	10
PULL! Dick Miller	14
HANDLOADING BENCH Kent Bellah SHOPPING WITH GUNS Roslyn Wallis	
THE GUN MARKET	64
INDEX OF ADVERTISERS	66



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(See also page 52)

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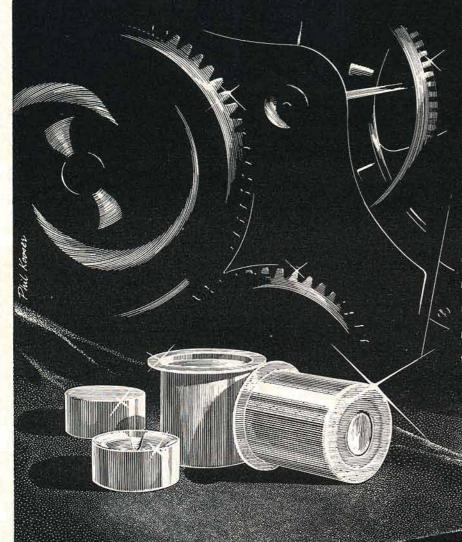


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GUNS in the NEWS [Special]-

- ◆ New York City: Worried about many holdups, New York's 30,000 cab drivers want police to allow some of them to carry pistols. Sal Baron, general manager of the United Taxi Owners Guild, says a driver is now "a sitting duck for robbers. Last year, 500 were held up, one killed," The Guild presented a plan for allowing 200 drivers to carry pistols on duty. The betting is, however, that the petition will not be granted.
- · Springfield, Ohio: United Auto Workers Union Local 272 stipulated in their contract with Quick Manufacturing Co. that the first legal day of rabbit and pheasant season be a paid holiday for union members.
- ◆ Bowie, Md.: When a nervous-appearing customer ordered Gilbert Certz, filling station operator, to "give me what you've got in your pocket," Gertz complied. Although the would-be holdup man had a gun pointed at him, Gertz drew the gun he had in his pocket, fired, and shot the man dead. The FBI identified the dead man.
- Roy, N. M.: Beverly Mackey, a demure 15-year-old, recently upset the complacency of male hunters when she bagged the thirdlargest Barbary sheep taken during a special hunt in northwestern New Mexico. Home-towners were not surprised. Beverly has been hunting since age 9, bagged her first deer at 12, won four turkeys out of five entries during last year's Harding County Lions turkey shoot.
- Los Angeles, Calif.: Wayne Huckabee was returning from a hunting trip when he witnessed a collision between two cars. One driver sped away. Huckabee pursued, forced the fleeing driver to the curb at gun point. Huckabee's captive was booked on suspicion of felony hit-run driving.
- · Woodbury, Conn.: When six-foot-three-inch Robert Heidorn entered his package store and threatened him with clubbed bottle, J. Roger Gayat handed over the contents of the till, then drew a .32 caliber pistol from a belt holster and fired twice. Heidorn, listed as in fair condition in the hospital, was booked on robbery charges.
- Portland, Oregon; When Phil Anderson heard suspicious noises at the back of his restaurant, he went to investigate. A man struck at him out of the darkness with a hatchet, Dazed with pain, Anderson fired one shot at the fleeing prowler. The man was killed. Examining the body, police found an older bullet wound in the man's side. This wound had been cleaned and dressed professionally. Police are seeking the man's identity and the doctor who treated him.

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The Millionth Savage '99

I was a guest of the Savage Arms Co. at their luncheon in the Sheraton Park Hotel in Washington, D. C., March 22nd, when they presented the National Rifle Association with their one millionth Model '99 rifle. Joseph V. Falcon, President of Savage Arms Co., made the presentation speech and Irvine C. Porter, President of the National Rifle Association, accepted. The rifle is to be placed in the N.R.A. Museum at N.R.A. headquarters in Washington.

This one-millionth Savage '99 is a beauty in every respect, incorporating the new top tang safety and lever lock as well as the new Monte Carlo comb. The wood is finest figured burl walnut and the riffe is completely engraved in fine scroll and inlaid with gold in bas relief.

The '99 Savage, then in .303 and .38-55 calibers, figures prominently in my earliest memories of Montana elk and deer hunting. Then came the .22 Hi-Power Imp, the .250-3000, and later the ,300 Savage, the latter a very efficient deer cartridge. With the advent of the .308, .243, and .358 Winchester cartridges, Savage chambered their Model '99 for all three; and since they introduced it in .358 caliber, it has been my chief recommendation for all who prefer lever actions as a big game rifle for America.

The '99 Savage has always had the finest magazine for a lever action rifle. That fine spool-type magazine, developed earlier than the Mannlicher Schoenauer magazine, I have always considered about the best ever produced. Bullet points are not battered or deformed as is true in tubular magazines, and the Savage magazine has an indicator telling how many rounds remain in the magazine.

The Savage '99 really came into its own with the introduction of the Model 99-D1 and the 99-F with their top tang safety, lever lock, and .358 Winchester caliber. The .358 caliber Model '99 is a rifle I can heartily recommend for our larger game, like elk and moose and big bear, as well as for the smaller deer-sheep-goat class of game. With its 250 grain bullet in .35 caliber, it has proved a very good killer on most all our big game when properly placed. For the lady, the oldster, or anyone wanting a light, handy, fast lever action rifle for our big game, the .358 Model 99-D1, fitted with hunting scope or good receiver sights, is a mighty good choice. It also makes one of the finest saddle guns extant, owing to total absence of projections and its flat receiver. Savage Arms Co. is to be congratulated on the production of the one-millionth rifle in this model. The serial number alone proves the '99's long-time popularity, and such popularity has to be, and is, deserved.

Crossman Model 600

Crossman's new semi-automatic .22 caliber pellet pistol, the Model 600 (pictured and described in detail in June Guns), is fitted with adjustable Patridge-type target sights, with windage and elevation in rear sight and a 1/10th inch front blade. The trigger contours the trigger finger perfectly, and trigger pull is reminiscent of the finest target

The new 40 ounce Crossman pistol has the weight almost directly over the crotch of the shooting hand, and it balances and points perfectly. Stock angle is just right, and this is the finest pellet-shooting understudy of our big .22 match auto pistols we have yet tested. Cheap practice with this Crossman 600 will enable anyone to take up the fine S & W. Ruger, Colt, or High Standard semi-auto target pistols and do top-flight shooting with

The gun is powered with CO2 gas cylinders that fit in the tube directly under the barrel. Barrel is button rifled and seems very accurate. Each gas cylinder holds from 30 to 40 charges, and the magazine on the left side of the gun holds ten pellets. A swinging arm picks up the pell from the magazine tube and, as the trigger is pressed, flips it over into the barrel cone where the gas drives it forward through the barrel. It is a very ingenious arrangement and functions perfectly so long as the pellets are not damaged or out of round. The grips are walnut-colored plastic of excellent shape, with thumb rest for either right or left hand. Maximum range is said to be 100 feet. It buries the pellets nicely in wooden blocks at 25 feet and shoots through sardine tins, so we presume will be fine for pack rats in the cabin or knocking that wailing tom-cat off the back fence.

Safety is just back of trigger on left side. The cocking slide is also on left side. This Crossman gas pell gun offers the best cheap indoor shooting we have seen, on account of its lack of sharp report. My tests indicate it is very accurate, and with any suitable wooden back stop it is absolutely safe to use in the yard even in a closely settled community if reasonable care is exercised. It should be a great boon to all pistol shooters who want to keep in practice without driving long distances to a pistol range. A 25 to 30 foot basement or room is all that is needed for a range, and one can learn to hold and squeeze just as well with it as with the fine target pistols and expensive ammunition.

For training youngsters it is the best we have seen. However, while not a firearm, it is nevertheless a fairly powerful arm and must be treated as such. I believe it has plenty power for brain shots on cottontails

(Continued on page 66)

Weatherby Mark V Custom Model shown

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A Rose By Any Name

I am very interested in the article in March Guns by Elmer Keith concerning the potential of a 30-338 "wildcat." May I say that a case and caliber almost identical to his description has been produced for the past five years. At the start, we produced it by shortening 300 H&H brass, and forming. Later, another firm came out with a similar 7 mm Magnum. That case was so close to ours that we need only open the neck for the 30, and fire form it. This saves time.

I want to verify Mr. Keith's opinion. It is a great "30." We and many of our clients have used many of these rifles with great success. The recoil seems exceptionally light, the destruction and penetration on the larger game with 200 gr. bullet (which seems to give the best all around performance) is terrific. From reports brought to me, not one bear, elk, or moose has gone more than a few feet after impact. I myself have shot five bear and two large moose—all, with good clean, one shot kills.

We do not claim to reach a velocity of 3500 ft. per sec. with a 200 grain bullet. However, 3000 can be attained with safe pressures. Even that is a lot of killing power.

Yes, Keith is right. Call it a .30-338, a Jordan "30" Super, or anything you wish, it is a terrific caliber, with an excellent past and a brilliant future.

Leonard Jordan Unionville, Ohio

Readers Know

My Handloading Bench on .44 Magnum loads in April Guns lists the max case length 1.258". It should be 1.285, as I wrote it. I'm sorry about the typographical error, but am glad to know the printer is human, like the rest of us. From the number of chaps who called this to my attention, Guns must also have a whale of a lot of readers who know the score!

Also, I should have stated that Jugular ballistics were obtained in a laboratory pressure and velocity barrel of minimum dimensions. Actual velocity varies a bit in gons of different dimensions, as does pressure. Revolvers lose a few feet per second, due to gas leakage between the cylinder and barrel.

Kent Bellah Saint Jo, Texas

Praise For "Quarterly"

We are now handling your fine magazine(s) over the counter in our gun department. May we enter this comment: It is our opinion that "Guns Quarterly" is the greatest thing that has happened in the gun industry since the advent of the brass case.

H. Jack Hargis Angleton, Texas

Fast Draw Clubs Please Note

I have enjoyed your variety of articles on that very controversial subject, fast draw. In recent issues I have read the opinions and have benefited by the advice of a National Champion, a U. S. Border Patrol Officer, and a former Texas law officer. Please keep these fine articles coming. The general public, as well as the shooting public, will benefit. In all respects the magazine is excellent, and I look forward to the next issue.

I would greatly appreciate any information you could send me regarding organized fast draw clubs. I am interested in obtaining the names and addresses of these clubs operating in my own state. Also the names of persons who could give me advice on starting a club and names of dealers who handle the equipment needed. Perhaps your contributing writers could help me. I would like to correspond with other interested parties.

James N. Kenyon Bristol, Conn.

THE WINNER

Readers who attended the NRA Convention in Washington in March and who visited our display booth there will remember that we offered a framed print of the fine James Triggs painting of the Colt's Single Action (the gatefold feature in our new "Guns Quarterly") as a prize for one of the many Convention visitors who subscribed there to either GUNS or "Guns Quarterly." A drawing was held after the Convention, and the lucky winner of the framed picture is John B. Tallerico, 12509 Atherton Drive, Wheaton, Maryland, Congratulations!

Fact Of Life

We sent this letter to the Seymour, Indiana, Public Library: "A reader passing through your city tells us that a sign is displayed proclaiming, 'Persons wishing to take out Guns Magazine please ask the Librarian first.' Can you tell me if this is true, and if so, why? Here is the answer:

The high school boys appropriate the new copies as soon as they appear on the rack. Since we haven't the staff to keep an eye on the rack to see that GUNS doesn't disappear, we have solved the problem by having them ask for it at the desk. When we know who has it, it isn't likely to go out the front door under some one's T-shirt. I don't believe it is hard to get. I see it on the racks. Just one of the facts of life in a library.

Librarian Seymour, Indiana Help Wanted

I have unearthed some highly interesting and completely new material on Edwin Wesson of Northboro, Mass., located there from about 1840 to 1850. One of the foremost riflemakers of his day, he was associated during that time for a couple of years or so with one E. A. (?) Prescott. He made plain and fancy standard rifles as well as "buggy" rifles, so-called, and these may be found stamped "E. Wesson, Northboro, Mass." or variations thereof; also "Wesson and Prescott." It is possible that some of Edwin Wesson's arms are marked "Grafton, Mass."

I want to do as definitive an article on Edwin Wesson as can be accomplished, and to this end I'd appreciate your bringing this letter to your readers' attention. We would like to have as fully detailed information as possible on any Wesson rifles-exact markings, caliber, length, weight, etc.

I'll be glad to send reply forms and post-

age to anyone who can supply data.

John T. Amber Editor, "Gun Digest" 227 W. Washington St., Chicago 6, Illinois

All This And Polish Too

Just finished reading Les Bowman's article on sporting rifles. I knew he was well versed in rifles and the fine points of big game hunting, as done in his locale; so that anything he would write as the subject of sporting rifles would be authoritative; but this article has flavor and polish, as well as facts. He has given the boys some real, down to earth good points. Let's have more writing like this.

> Burton Warner · Lawton, Oklahoma

Viva the Deputy Sheriffs

Having served as a Deputy Town Marshal, Deputy Sheriff, and United States Border patrolman, I find Guns a very excellent 'gun" magazine. The articles are exceptional, finely compiled and sincerely interesting.

In past issues I've noticed that you have had articles about various police departments. I suggest an article about the County Deputy Sheriffs of Milwaukee. We only number 165 men, but we have the medals, plaques and trophies to prove that we're more gun conscious than most police departments! We built the first indoor range in Milwaukee County. We have more teams shooting locally, and statewide than any one department in this County. We saved the Milwaukee Gun Club from being torn down and abolished. Lieutenant Kosalos right now has plans for a large police and public outdoor range.

Kenneth M. Platek Milwaukee, Wisconsin

British Gun Registration

In the British magazine "John Bull" a column appeared about unusual objects recovered in the lost-and-found "Railway Lost Property Office." Mentioned was a .303 rifle, left by someone on a train. We wondered how it was that in Great Britain, with strict enforcement of rifle registration laws in addition to requiring registration of pistols, a .303 could be "left" to turn up as unclaimed property. We wrote the Editor of "The Field" and this is his answer:

I have investigated the matter of the rifle

left on the train. As I expected, it was left in the train by a soldier. Unfortunately, our soldiers are rather forgetful and leave their rifles in odd places from time to time. The Railway staff, therefore, handed it over to the Tower of London, who handed it over to the Army, who traced the soldier and put him on a charge; and that, for the moment,

I then put to the test your doubts about the efficiency of Scotland Yard. I asked them to trace the owner of a revolver which happened to belong to a friend of mine. They gave me his name and address correctly in 1 min. 40 secs. Nobody was more surprised

> Wilson Stephens, Editor "The Field" London, England

Wants Dope On .243-.244

I am in the sporting goods business, am a reloader and varmint shooter. We are having more and more requests for information on loads for the .243 and .244 rifles. You have a fine magazine, in fact one of the finest for shooters, and I feel that more articles on the above would be greatly appreciated by many shooters.

I have been a reloader for many years; have owned them all, from the factory jobs to many custom varmint and bench rest guns, and from the small effective .22 Hornet to and including Weatherby guns.

Keep up the good work, and may we always have the right to keep and bear arms in this good old U.S.A.

Harold W. Vaughn, Prop. Economy Store Glouster, Ohio





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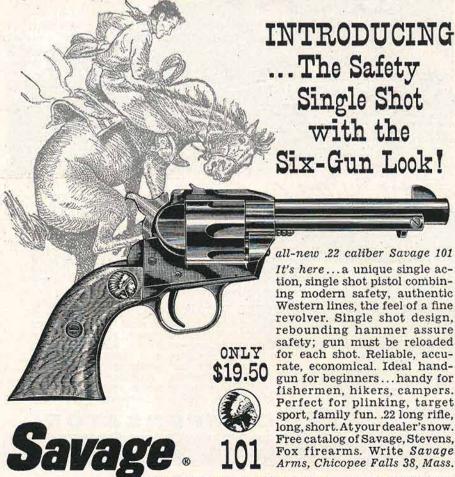
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Garand Rifles Now Available!

Although the government cost of the M-1 rifle is about \$98, plus some \$70 more of handfitting if you want a D.C.M .- National Match grade gun, Hunter's Lodge is offering a large lot of these fine rifles at about eighty smackers. The rifles can be sold at considerable savings in price to the shooter, plus a sideline benefit, in that this places into the hands of thousands of competent and experienced riflemen a first class infantry weapon which will probably remain in substantially issued condition, or with a scope added, thus adding materially to the national defense potential of us armed citizens. Thesse M-1s are military arms in being, and will be of great value if someone on the international scene "pulls the switch." The widely scattered "Minuteman" groups should invest in M-ls as a matter of good sense as soon as possible. The guns from Hunter's Lodge which we have seen are Springfield make, fairly "low number" (under one million) and in really nice condition. They are a good buy at the price, especially when you consider that the off-shore procurement price for this model arm as made in Italy by Beretta and Breda for NATO sales is \$112.50. For those of our

younger readers who may not know what the United States Rifle, Cal. .30, M-1, is, we quote General George Patton, as saying it is "the greatest battle implement ever devised." It is gas-operated, turning recoiling bolt, fires from a closed bolt, loads with 8-shot clip package, fires all .30-06 type sporting ammo as well as Cal. .30 Ball M-2 and the heavier boattail Ball M-1, weighs about nine pounds and is as you see it, page 36. At \$79.95 from Hunter's Lodge, 10 Prince St., Alexandria, Va.

The .22 JGR Cartridge

The bottest story ever published in Guns to date, judging by the flood of letters received,—and this includes some which really provoked a storm of reader response—has been the announcement of the .22 bottleneck pistol and rifle cartridge known as the "JGR." This Canadian development is the inspiration of John Gower, JGR Gunsport Ltd., 2362 Kingston Rd., Toronto, 13, Ontario, Canada, phone AM 1-5161, cable JGRGUN, Toronto, Its 37 grain H.P. or 40 grain soft nose jacketed pills pop along at about 2000 feet per second from barrels of nominal length, with reasonable internal ballistics.

More elaborate studies of this long-awaited and now widely acclaimed little cartridge will be reported on in Guns shortly. Pressure tests are not yet all in. A survey of chronoscoped velocities may show something less than the enthusiastic figures of JGR's inventor, but we say this only by way of being conservative. Practical pressures depending on the action of the breech may involve lighter loadings than the crammed-full-of-powder charges of some test JGR loads.

The virtue of this light cartridge is that its overall length is not longer than a .22 LR rimfire and hence it will function in mechanisms adapted originally for the .22 LR. This means many arms can be safely converted to handle this cartridge, though a slightly faster twist than the 12"-14" twist of many .22s might be indicated for better stability at short ranges. In converting a typical rimfire .22 to centerfire, the bolt face must be closed up with weld and the firing pin and hole relocated on the axis of the bolt. The bolt face recess must be end-milled out to the larger .280" base diameter, while the chamber must be cut to a cylindrical .297", taking the .295" max. diameter .22 JGR case body. The center of the 36° case shoulder falls .619", from the base, in a .775" L. maximum chamber, The .247" maximum case neck diameter falls inside the .248" maximum chamber neck-Gower is experimenting with a thicker case neck wall these days and may alter the specification slightly. Meanwhile, the above gives a fair picture of the JGR case and chamber for mechanically inclined gun nuts. The bullets are seated to be not longer overall than 1.005". Extractor and ejector alterations may be needed.



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More and more hunters now insist on Cutts Compensator with individual Comp Tubes. It's the only choke device that gives dependably accurate shot patterns. Smooth-as-silk Comp Tubes deliver killing patterns at the right range for your game . . . and give critical accuracy even at extremely short or long range — the "blind spots" for adjustable devices.

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Such guns as the Remington 37 Rangemaster or the solid older Model 52 Winchesters would do well for this sort of alteration, while the Mauserlein small military trainers are ideal, if solidly constructed, for such conversion work. Autoloading 22 rifles generally are not properly constructed, not so much from basic strength of parts as from the dynamic balance of the selfloading system. Bolt inertia spring tension, friction are all figured out in terms of the .22 LR cartridge and the changes needed to convert to JGR may be more than the effort is worth. At present, best stick to non-recoiling guns for JGR conversion.

Heavy-cylindered .22 rimfires in revolvers should do well in this cartridge and Gower has a rimmed version, base extending .326" maximum diameter, so the extractor will work. We have successfully converted centerfire Colts to rimfire by changing the recoil plate and firing pin, so there should be no difficulty in doing the reverse to alter a rimfire to centerfire. Or in case of really "shot" centerfires a new .22 barrel could be ordered (Police Positive for PP and Special ,38s, or for the Official Police-OMT series) and the cylinder either bushed or replaced and rechambered using the standard ,22 cylinder for the model, This is a gunsmithing job not recommended for the casual tinkerer, but it's okay if done by a competent mechanic.

Since the JGR is a centerfire series, it can be reloaded, and tools are available from JGR Gunsport, Ltd., as are unprimed cases, specially made in Austria, Canada's hig C-1-L plant is running tests on the JGR case with a view to stabilizing a design which will prove safe and practical for them to make, With the tremendous interest aroused in the new case by GUNS' announcement, they may accelerate their production plans. While they are not yet firmly committeed to making the cartridge, they are interested. Should popular "demand" become loud enough obviously they will be inclined to fill the market if they can make enough at a profit. Meanwhile, one revolver maker is experimenting with a new model six-gun for the JGR, while one company, not yet making modern arms, is considering a novel automatic pistol which should, from early indications, be a real "knockout," in JGR and .22 LR calibers. More on these developments as they occur.

Alcan Hotstuff for Shotgunners

The new Alcan lead-styphnate WW-209 primers are available in convenient 100unit cans or in cartons of cans, 1000 to a carton. Reason we mention "lead styphnate" is because this compound incorporated into primers results in an unusually stable, longlife non-corrosive primer that is uniform and strong in its flash. While few shooters will buy primers just for "long life in storage," a primer that stores well means that it has been in good condition during prior storage. You can never be sure how long primers may have kicked about the dealer's shelves but with the Alcan MAX-FIRE primers made in Italy by the famous Giulio Fiocehi company you can be sure they are sure fire, Alcan's "Shotshell Reloaders Manual # V" gives the full dope on all of Alcan's many wads, primers, nickleplated shot, brass cases, etc., for shotgunners using guns new and old. From Alcan Co., Dept. Gm. Alton, Ill.,

Hydraulic Reloading Equipment

The home hobby of reloading has grown in many shooters' basements into a midget factory set-up. Calculated to appeal to these heavy shooters is the new Rozzelle-Denver hydraulic outfit, plus hydraulic adaptors for other popular loading presses. The description of this outfit, plus blueprints and assembly drawings, would occupy too much space for this column. Sufficient it is to say that 25 cases (,30-06) a minute can be full length sized, and as many as 40 jacketed bullets a minute swaged, having jacket cups or tubes and lead cores ready, pre-cut. Minor additions to the standard set-up can easily be made by the mechanically skilled reloader to even more perfectly adapt the Rozzelle unit to special needs. For instance, as Rozzelle tells of in their printed literature, one club officer put a knock-out bar on part of his machine, so it chucked out the cases mechanically instead of requiring that micro-second for hand removal, speeding up production. The Rozzelle equipment is not cheap, but it is not cheaply made, either. Hydraulic gear tested up to 3,000 p.s.i. (as per gauge revealing the push or pull needed to resize, neck, or swage as the case may be) is not to be made of shoddy materials. Rozzelle's equipment received commendable mention in Elmer Keith's trade column, "Pointers For Profits," in Guns' companion trade journal, Shooting Goods Retailer, We will have more details on the Rozzelle units in Guns soon, Basic idea includes four-way foot treadle to operate loading machine, leaving both bands free to feed and remove finished components. For rifle, pistol, shotshell reloading, up to 10 gauge magnum, From Rozzelle Enterprises, Inc., 23 Sandy Circle, Denver 22, Colorado.

A Good Look At Flaig's Lodge

A neat little catalog with a cover pretty enough to frame has just come in from Flaig's of Millvale, Pa. Getting the business away first, it lists their fine Ferlach, Austria built shotguns, barreled rifle actions, fine stock woods (they are prime source for genuine Circussian stock blanks in this country) and many gadgets and small items for custom rifle building whether you do it yourself or have a gunsmith make up something to your spees. But a second look at this catalog, mailed free, (No. 32-A) shows a beautiful snowy scene of the lodge itself, plus many views of the hilltop. Flaig's is situated on a wooded bluff cornered by the main route into Pittsburgh from the North and a main suburban artery, easy to get to until you hit the haul up their front lane. Take it from me, if you're heavy loaded with guns in a fluid drive car, it will really strain 'er going up that deceptively simple slope. Flaig's Lodge is well worth a detour to visit if in the Pittsburgh area. And you can get a preview of what to look for from their catalog.

Spotting the Buhl's eye

We have been trying out the 25X Model S565 Buhl spotting scope at the Waukegan International Range, firing on 300 meters, and report after four months constant use that it is a uniformly great success as a glass. Actually, this merely ratifies long-time U. S. government use of this scope and if you look close at Defense Dept. photos showing shooters on the range, you'll (Continued on page 63)

STOP-LOOK-LISTEN

The varmint hunt will be a success for the hunter who will stop, look, and listen carefully to this advice: "Sight in before every hunt! Shoot several groups at the ranges you expect to see game! Reload with SIERRAS, the most accurate and destructive bullets made!"

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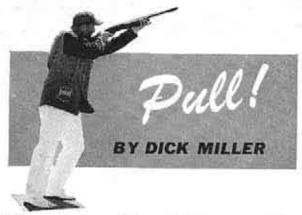
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LAY TARGET shooting as a part of the personnel recreation programs in large (and not so large) industries, is mushrooming all over our land. The announcement by Don Neer, Executive Secretary of the National Industrial Recreation Association that NIRA's first Annual Open Industrial National Skeet Championships will be held at Hilldale Gun Club, northwest of Chicago, completes the national picture of clay target tournaments. Now the industrial trapgumer can compete in the annual Armoo Invitational Industrial trap championships at Middletown, Ohio, and/or try his hand at skeet in the NIRA national championships September 24 at Hilldale, on Chicago's northwest side.

The NIRA national industrial skeet championships are open to all industrial concerns, NIRA membership is not required. Team and individual awards will be made, Firms may field as many five-man teams as the traffic will bear. Further information and entry blanks may be obtained from Don Neer, Executive Secretary, National Industrial Recreation Association, 203 North Wabash, Chicago 1, Illimois.

Industrial shooting leagues and programs, which are expected to be feeder programs for all the national industrial shooting tournaments, are setting production records in many areas. In addition to the fine industrial clay target leagues now booming along, new leagues are forming in such areas as the Calumet area of northern Indiana, in southwestern Michigan, Ohio, Wisconsin, and all over the West and Midlwest.

Frank Trezise's Ohio newsletter makes this announcement—"An industrial trapshooting league has been formed by a group of Springfield, Ohio companies, Under the direction of Lovell Smith of the White Diesel Division of the White Motor Company, eight major manufacturing concerns will have 150 to 200 men breaking elay targets." The Airetool Manufacturing Company, Thermometer Company of America, International Harvester, Ohio Steel Foundry Company, William Bayley Company, and White Diesel will compete with one another at local gun clubs twice a month.

Smith said: "There is more fun in competitive shooting as we do in the Springfield League than in going out and shooting up a box of shotgun shells in a closed group. Our league is not a closed affair but will be open to any Springfield company that can put five shooters on a team."

The Sportsmen's Service Bureau is working in close contact with Smith to help make the trapshooting league a success, PULL! will continue to report progress in industrial olay target activities. The sports of trap and skeet are ideal for the industrial recreation organization, and the present mushrooming growth had to come.

. . .

Judging from our PULL! mail, many readers will be interested in a new manual new available. While the manual covers the entire shooting picture, it will also be of interest to clay target fans.

The new manual, called "Shooting and Hunting," is unusual in that it is published by the American Association For Health, Physical Education, and Recreation (AAHPER), a Department of the National Education Association (NEA).

Readers will understand the unusual nature of this publication after reading from the cover-leaf, which says, "Shooting is fun. This manual has been written for you—you as a teacher and as a student. Its contents have been created by experts who are both teachers and students. They know how to have fun with guns and bow to teach others.

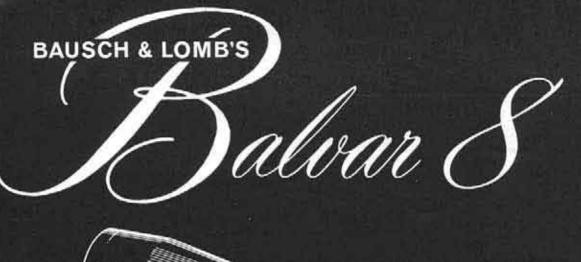
"The problem-solving experiences of many Outdoor Education Workshops are in this guide, and much of this experience was gained from teaching those who had never shot a gun. Many feared guns, and will never be afraid again. Many came with understandable misconceptions about guns and the ways in which they can be used for recreation. They have learned and are now teaching others to enjoy shooting with both safety and pleasure...

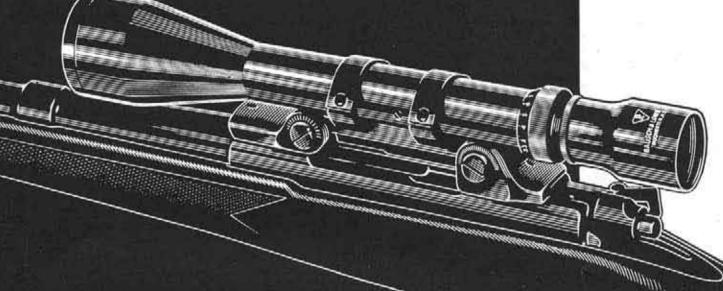
"We have our own definition: 'Fun is doing what you want to do when you want to do it.' While we all have our way of describing why we like to do what we do, all reasons can be justified, and shooting for fun has a place in every one of them."

An open letter about "Shooting and Hunting" on the next page of the cover-leaf says, in part: "'Shooting and Hunting' is something new in the field of outdoor education. Here is a manual on these exciting outdoor sports which enters specifically to your needs as a teacher, Regardless of how much you know about shooting and hunting, this guide will help you to make full use of your special teaching skills. Although particularly helpful to educators, this manual will enable everyone, qualified instructor or interested parent alike, to teach better and enjoy themselves while doing it. Attractively designed and simply worded, this manual explains with diagram or cartoon wherever possible. It appeals directly to the student with its central character, Purp the Beagle."

A manual on shooting and hunting, published by the nation's most prominent edu-

(Continued on page 38)





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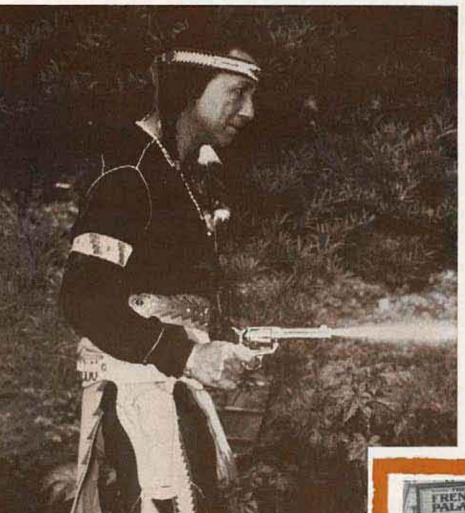
Write for information or send 25¢ for 96-page manual, "Facts About Telescopic Sights." Bausch & Lomb Optical Co., Rochester 2, N. Y.

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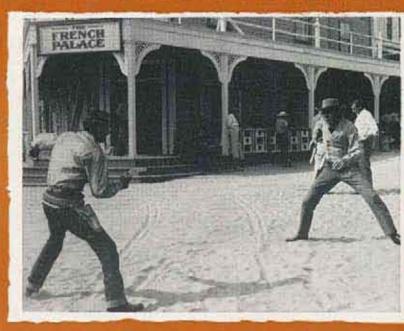






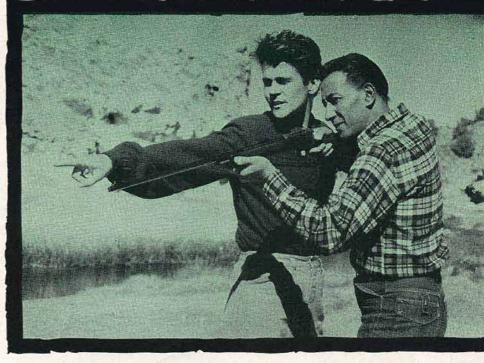
Bullet from Marlin "Mountie" hits knife through pendulum hole, smashes wafers.

FILMDOM'S STRAIGHTEST-SHOOTING INDIAN DOES HIS WORK BEHIND THE SCENES FOR SPECIAL GUN EFFECTS



In modern Indian dress, Rodd Redwing thumbs quick-draw tuned Great Western. Above, coaching Henry Fonda on "Warlock" set, Rodd beats Fonda slapping leather before uninterested extras.

THE GUN BEHIND



Many now-famous stars have learned gun skills from "first American" who has taught arms history and military lore.

HOLLYWOOD HEROES

IF ALL INDIAN braves had been as handy with guns as full-blooded Chickasaw Rodd Redwing, you'd never hear today's taxpayer's lament, "Give the country back to the Indians!" You wouldn't hear it, because the Indians would still be in full possession!

Rodd is one of Hollywood's leading technical experts on weapons. He might very well qualify for "fastest gun alive" laurels, if he cared to claim them. But, as he puts it, "I don't, simply because I don't think there is any such thing. In the Old West, the white man had a saying, "There was never a horse that couldn't be rode, or a man that couldn't be throwed.' This applies to fast guns. Gun-slinging is like any other skill; you can't be best all of the time. Speed with a gun depends upon the shooter's current physical and mental condition. One day, he might be unbeatable, on another, he just can't do anything right. The most any athlete can hope for is to average out as one of the best."

Actually, Rodd makes his living by doing things right all of the time—at least when it counts. Too often, doing something wrong would not only cost substantial money losses for a film studio—it might cost a life.

During the filming of "The Fastest Gun Alive," for which Rodd was technical director, he was obliged to shoot down a narrow corridor between dozens of extras who were "spectators" at the famous "beer mug shot" by Glenn Ford. Alan Joslyn dropped the beer mug (made of wax to avoid glass splatter), and Glenn drew and shot at it with a blank. Rodd, placed out of camera range with a .22 rifle, shattered the mug in unison with Glenn's shot. The backstop for Rodd's bullet was a bale of hay placed at the end of the narrow corridor between the extras. A wrong shot here could have been

By JOHN LACHUK



No phony redskin, Rodd is serious worker in local Indian crafts and social groups.







Short-range accuracy plus speed is demonstrated by Redwing who draws six-gun with same hand that drops matchbox; then as box falls he cocks and fires, hitting wafer on backstop before box hits floor.

disastrous, but nothing happened; and all three "takes" were perfect.

Rodd is also in demand as a professional exhibition shooter. For exhibitions, he uses a pair of Frontier Colts with chambers sleeved to shoot .22 rimfire cartridges, and a pair of Marlin .22 caliber, lever-action rifles. He fires against the hardened steel backplate of a shooting board which was designed and built for him by the Los Angeles Police Department. Rodd is equally adept with his dozen or so big bore rifles and pistols, but they don't lend themselves to use on a stage or at a TV studio.

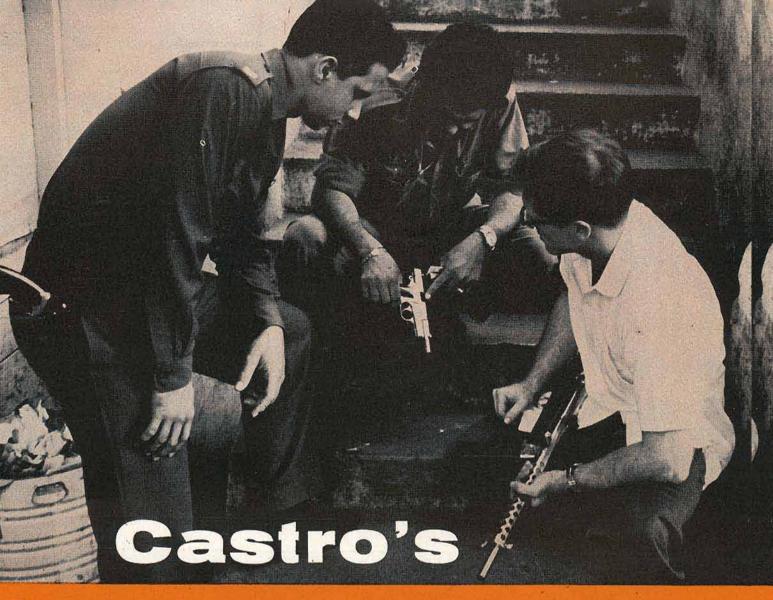
Rodd has performed on many network TV shows, such as "Wide, Wide World," "You Asked For It," "Art Link-letter's House Party," "What's My Line," "I've Got a Secret," and "People Are Funny." During rehearsals for a recent "People Are Funny" show, Rodd twice registered draw times witnessed by 43 persons, of .17 of a second, including reaction time. On "You Asked For It," Rodd did his most controversial shooting stunt, that of throwing a knife with his right hand, then drawing his holstered gun with the same hand and shooting a hole to receive the still hurtling knife.

One Hollywood writer has intimated that Rodd's spectacular shooting is largely the result of trickery. The "trick" to the knife shot, as Rodd explained it to me, is to "Pick out a mark on the board at which to throw the knife. Then shoot a hole in that spot while the knife is in flight." It's a good trick—if you can do it.

Another of Rodd's stunts is to snuff out a candle with his Frontier revolver—complicating matters by putting the candle on a swinging pendulum. . . He has another pendulum with a two inch hole in its center. Through this, he splits a bullet on an ordinary hunting knife, shattering two wafers, placed one to each side of the blade. Rodd performed these and other shots in his repertoire at the December Fast Draw National Championship match, held in Las Vegas, Nevada, before an audience of over 3000, He amazed even the most blase among the shooters present to compete in the event. Crowds are nothing new to Rodd, He recently did his exhibition shooting in the Hollywood Bowl, before an audience of 20,000.

Unlike many Hollywood personalities, Rodd does not make free personal appearances in search of publicity. He does perform a great many benefit shows for the Boy Scouts, Polio and Muscular Dystrophy victims, and crippled children's schools, totalling an audience in 1959 of almost 8,000. He also visits boy's detention schools, in an effort to bring a message of rehabilitation to these troubled youngsters, Rodd loves childen, After Rodd performs for one of these children's groups, he throws the meeting open to questions-no holds barred. Here are a few typical ones: "When did you become an Indian?" "Do you live in a tepee?" "Are you married to a squaw?" (Rodd's charming wife, Erika, came to the United States from Germany, before World War II.) "Have you ever been shot?" "Have you ever killed anyone?" Rodd doesn't tell his youthful audience that he has taken human life, although he was obliged to do so during World War II. He does admit to being shot. When his wide eyed spectators ask how, Rodd replies with his usual impish grin, "With a B-B gun!" However, the several scars on his body really resulted from some pretty rugged action in the South Pacific as a lieutenant in the Army Air Force.

Rodd's concern for his own people leads him to spend much of his time working in (Continued on page 61)



Secret Arms Factory

FOR MAKING NEW GUNS OR COPYING OLD ONES



Cuba-made Browning, 16-shooter is rifled to push gun against "aim" finger, as Albert Llopiz shows.

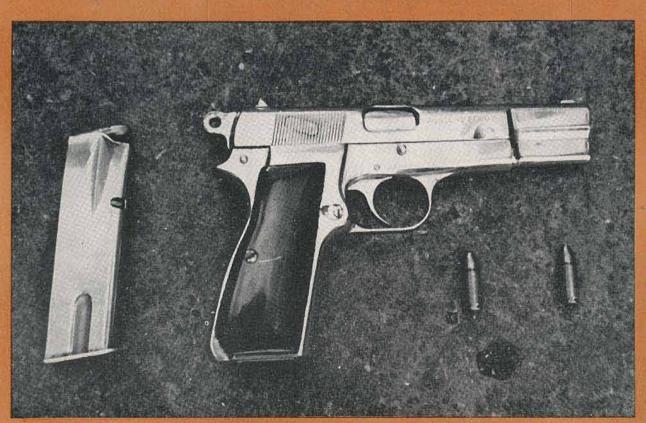
By ROBERT K. BROWN

Guns Cuban Correspondent

FIDEL CASTRO, STRONG-MAN of Cuba, no longer will have to depend on foreign sources for small arms to supply his bearded army.

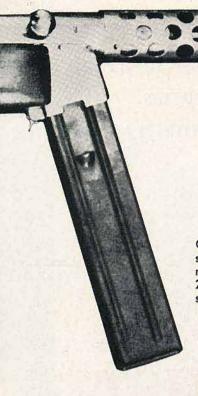
According to Comandante Reglino Comacho, ex-Spanish Loyalist and professional revolutionary, who is presently "Director Industrias Militares," the Cuban armory at Camp Libertad outside of Havana is capable of producing small arms, accessories and ammunition. Picture-shy Comacho, who proved his mettle while creating and repairing weapons for the Cuban rebels during the revolution, (See Guns, Oct. 1959) showed me several examples of ordnance that he has already turned out: .45 and .30 caliber cartridges, and a sub-machine gun of simple blow-back





First copy of Browning Hi-Power by brilliant gun engineer was forged from cat track; limited production guns were cast metal. Magazine is modified, holds 16 cal. 9 mm cartridges instead of 14.

20



GUNS foreign correspondent Brown is shown finger hold by Lt. Rafael Carrera, QM chief for Comacho, who wears 2".45 Colt New Service. Below, Brown studied, did not fire "La Siquitrilla."





design, modeled after the Dominican Republic's "San Cristobal." The San Cristobal is basically a .45 caliber Beretta submachine gun. According to Comacho's more talkative aides, the armory is "fully equipped." Production capacity of the arsenal will be determined by the number of personnel employed. Comacho mentioned that production would be held up because of lack of properly trained personnel, but his aides said later that the arsenal employs 130 to 140 men and, out of this group, 30 to 40 are "armorers." I was unable to get him to define what was meant by "armorers."

The equipment of the shops, bought by Batista but used only for repair work, includes forges, lathes, and punch presses capable of "24,000 presses per 24 hours." Presently, Comacho is waiting for a governmental go-ahead to start producing a .45 cal. copy of the Sten submachine gun which still is under wraps. Cuban security regulations precluded inspection of the armory.

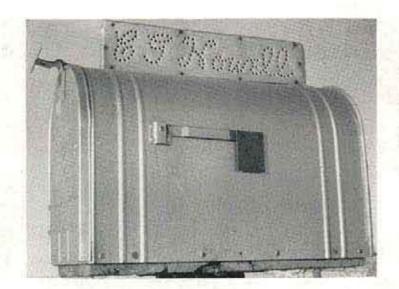
One of Comacho's experimental weapons produced in the

Libertad arsenal after being initially developed in the mountains, is the improved copy of the San Cristobal. According to Comacho its weight is slightly lighter than that of the San Cristobal; it pumps out .30 cal. carbine ammo at a faster rate than its father.

Comacho has not tested its cylic rate of fire, but feels that "it shoots 40 rounds in the same time the San Cristobal would fire 30." Range is shorter than the 700-meter range of the San Cristobal due to shorter barrel length.

Although I was unable to test fire the weapon, it seems logical that the modifications Comacho has introduced are definite improvements. The bolt handle is hollowed out, filled with oiled waste. The oil gradually seeps through a small aperture in the bolt handle onto the bolt itself as the weapon fires. This "oiler," according to the Comandante, rectifies one major defect of the San Cristobal, that of the bolt and extractor heating after prolonged firing which in turn caused the weapon to jam.

On the San Cristobal, the (Continued on page 37)



"BULLET ART" IS NOT A

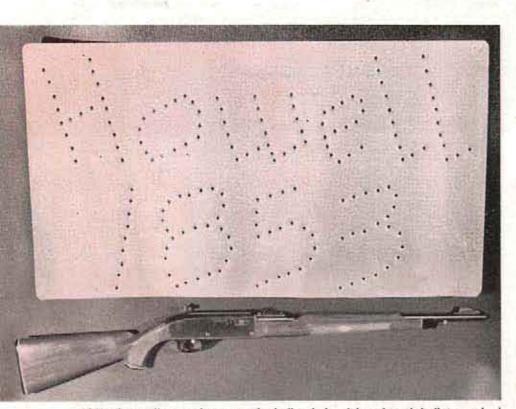
SKILL RESERVED TO TOP "PRO"

EXHIBITION SHOOTERS.

IT'S FUN, AND WITH PRACTICE

YOU TOO CAN BE A BULLET ARTIST

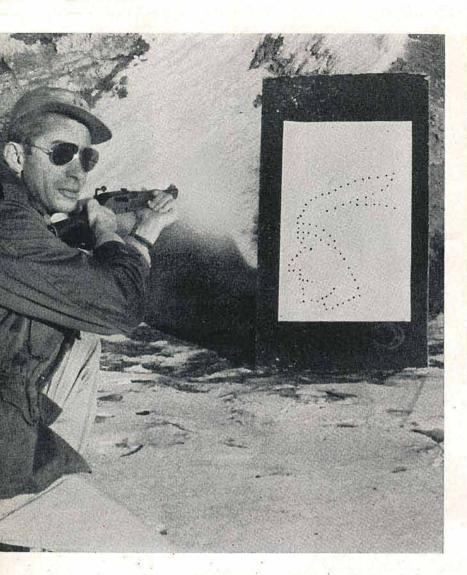
By CLYDE HOWELL

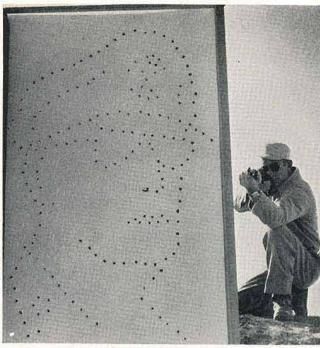


Old-style mailbox with new style bullet holes (above) and bullet-punched house marker are signs of author's home-developed .22 auto rifle skill.

DRAWING PICTURES with bullets is a form of gun fun that has been reserved, seemingly, for the sole enjoyment of the professional exhibition shooters, Ad Topperwein was a wizard at it, could "sketch" an Indian head complete with feathered head-dress almost as fast as an artist could do it with pen strokes, The late Ed McGivern referred to it as "Bullet Art." It's fun, and it requires precision shooting, and these are usually the prime requisites for popularity for a shooting sport—yet nobody does it. Why?

I say nobody does it; at least I've never seen any evidences of "bullet art" in or around the homes of the many gun fans I know. Shooting friends to whom I talked knew nothing about it. Yet it isn't an expensive form of shooting. It isn't easy, yet it isn't something nobody can do but a professional gun-magician. It's visible, and will impress even your non-shooting friends—something that can't be said about the other paper-punching target games.





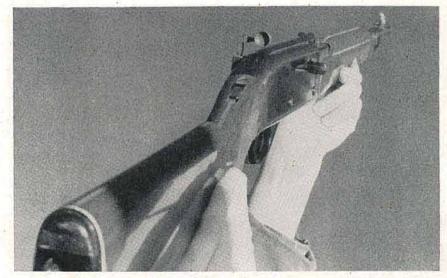
Range is only 12 feet but control takes a good many boxes of .22s to learn. Outlines of Indian, MacArthur, are holes I" apart.

Blade front, peep rear sights are used. On Howell's Rem 66, the sight blade was of the right width to use corner on last bullet hole as guide in placing next shot in line.

And, as I said before, it's fun ...

Drawing a straight or curved line with bullets placed exactly where the eye is looking is not easy, but when you do see your first meaningful pattern grow, dot by dot, against its field of white, you'll get a thrill out of it equal to the one you might get out of a 20X possible. And you'll have something to show that people will understand better than non-shooters understand a small ragged hole in a bullseye target. If you hang it up (and you will), you'll be "ahead of the Joneses," because there won't be a bullet painting in many houses. So—how do you do it?

Until a few months ago, I, like you, figured that drawing pictures (or words) with bullets was something beyond normal skill, something only for the pros, like pulling rabbits out of hats and sawing pretty ladies in half and making elephants disappear with a flip of a napkin. Frankly, the first time I tried to draw a straight line with bullets. I decided I was right the first time



—that this was something beyond the skill of common people. But it challenged me, because I couldn't see why this should be more difficult than any other form of rifle accuracy. Maybe there was a trick to it?

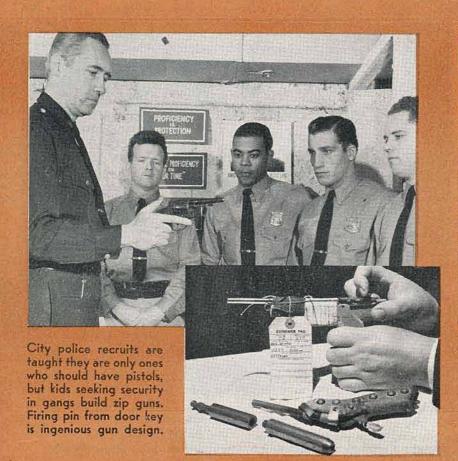
I decided to give it a battle. I dug up a piece of white cardboard. On it, I penciled a horizontal line and a vertical one. On these lines, I spotted quarter-inch black dots spaced three-quarters of an inch apart. Then I twined myself around a sort of bench rest of my own manufacture, and started trying to punch out those bullet-size bullseyes. Range? Twelve feet. Not even the professionals shoot their masterpieces at (Continued on page 46)



Mounting crime rates (posed by non-professional models) in N.Y. give grave concern to civic groups. Right, Sen. Pinto, Rep. Edna Kelly, Judge Cone examine zip guns.



THE PEOPLE vs.





Objections to anti-gun laws were made by detective Burns early in Sullivan Law's existence, in Recreation magazine. Right: N.Y. destroys firearms by chopping them to pieces.

INFLEXIBILITY ON BOTH SIDES COMPLICATES ALL

TALK OF GUN LAWS, BUT GUN PEOPLE ARE AT LEAST BEING HEARD

"THE SULLIVAN LAW is outmoded," Governor Nelson Rockefeller's special assistant Arthur Christy told me recently in Albany, "The Governor is much interested in the problem."

Good. But New York's Governor is only the top man of many who are concerned over the Sullivan Law. Public opinion is shifting away from the old time "put more teeth into it" concept, and this is a healthy sign for the shooting sportsmen in the Empire State and elsewhere. Last February 25, at an open hearing, devotees of sporting arms fired a collective volley at bills backed by New York City's administration, which would tighten controls on firearms and ammunition.

The bills, drafted as part of New York City's attack on juvenile delinquency, were assailed as impeding and harassing honest men and infringing the constitutional right to bear arms. Most critical, when asked about these gun laws, was the comment of one of the nation's foremost psychologists and social workers, Dr. Lee Steiner, author of the current best-selling "Understanding Juvenile Delinquency" which all but ignores the anti-gun law.

"These anti-gun laws as supposed cures for juvenile delinquency seem often to be the work of desperate people willing to take any measure," Mrs. Steiner said. "They appear not to be really concerned over whether their ideas will work, or not.

"You will recall that National Prohibition was much the same thing and it, too," Mrs. Steiner dryly commented, "was supposed to cure all sorts of social evils."

Thirty firearms bills, including shotguns and rifles, were taken up at the hearing. Spokesmen for rod and gun clubs found no merit in any of the restrictive legislation. They sympathized with police problems, but declared that more legislation was not the answer.

Karl T. Frederick, who spoke for the State Conservation Council, declared that New York already had the strictest laws on firearms, yet still has a high crime rate.

"It's not the weapons," he said, "but the people that use them. This notion that crime can be stopped by passing another bill is utterly fatuous." (Continued on page 49)

THE SULLIVAN LAW



25 HH Y 1940

The Missing Link in Rapid-Firers





Shells in feed tray roll onto spindle, putting each shot in line with the moving breech bolt.

By DANIEL F. FORD

HISTORIANS USUALLY credit R. J. Gatling with producing the first practical machine gun for combat use. Practical, his guns were, and combat use they saw, but Gatling was not the first. The Gatling system was the highest expression of the "battery gun," a repeater with a group or battery of barrels. But for nearly a century now the single-barrel gun has held the field, and the most widely used single barrel gun was the Maxim.

As machine gun students know, the Maxim's construction centers around a Luger-like toggle joint action which imparts a fore-and-aft movement to the breech block to fire and reload. The Maxim was, Sir Hiram Maxim supposed, an "improvement" on the Gatling. But a recent discovery in New Hampshire may show the basic design of the Maxim, though not Maxim's, pre-dates the Gatling by a handful of years. A local gunsmith has uncarthed a percussion-cap machine gun which residents conjecture may date so far back as 1840, decades before either Gatling or Maxim made their appearance. The gun, located in the village of Charlestown, fires .51 caliber rifle bullets through a single barrel as fast as the operator can turn the crank. A slight alteration in the mechanism, a spring to automatically return the breech block, would have produced a true automatic machine gun had the inventor wanted it!

In the opinion of Col. George M. Chinn, (Continued on page 62)



Total of 481 officers registered at Bergen shoot from 53 bureaus.



S&Ws on the line jump at Fair Lawn range during police match. Many departments issue targetsighted guns, encourge practice.



NEWSPAPER BACKS COPS IN WAR ON CRIME

JERSEY NEWSPAPER BOOSTS SHOOT, POSTS NAMES. SCORES, AS COPS PRACTICE GUN SKILL THAT WILL DISCOURAGE CRIMINALS

By ROBERT V. LITTLE

[UNE 9, 1956 . . . A POLICEMAN lined up the sights of his .38 special and I fired. He flinched from the noise and recoil of his own weapon, and the sound of the shooting going on around him. Desperately he tried to steady his shaking hand and fire again before it was too late! Minutes later-when it was all over-he shook his head in despair as he talked to the cop next to him. "I was shaking like a leaf! How about you?"

The other cop grinned self-consciously as he answered, "I was scared stiff!" What nerve-shattering ordeal had these two policemen just been through? -a gun battle with a notorious criminal? A fight to the death? No, they had just completed their relays in a pistol match and were discussing their performance behind the firing line.

Was this dismal lack of poise a sad commentary on the protectors of our citizenry? If so, a lot of civilian shooters would sympathize, for match pressure gets us all. At any rate, it was encouraging to see two policemen, even if not "hot shooters," at least firing their guns . . . shooting man to man in a pistol match alongside that select few who seem to make up the (Continued on page 40)



W. H. Harrington, Englewood, aims Colt OMT that took first place.



Burial detail left stone at site of Washita fight.

The GUNS of the LITTLE

By PEYTON MONCURE

84 YEARS AGO THIS JUNE, THE LEGENDARY
"CUSTER LUCK" BACKFIRED AND 315 MEN RODE TO NEEDLESS
DEATH. ARGUMENTS STILL RAGE
OVER WHAT GUNS THEY USED, WHAT GUNS THEY FACED

MASSACRED! GEN. CUSTER AND 261 MEN NO OFFICER OR MAN LEFT OF FIVE COMPANIES

THUS APPEARED the glaring headlines of the first accounts of the Custer Massacre, dated July 6, 1876. And ever since then people have pondered and speculated on the subject. What caused this so-called massacre? What happened up there on the Little Big Horn that caused Custer's entire immediate command to be wiped out?

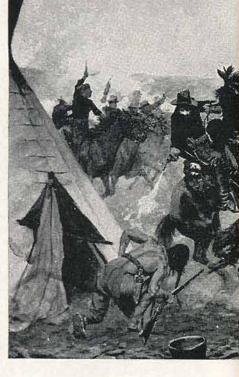
Some of the questions concern the guns and ammunition of the troopers, and of the Indian hostiles. Did the Indians have repeating rifles while the cavalry had only single shot rifles? Did the cartridges of the cavalrymen stick in their rifles after being fired and have to be pried out with knives, as was claimed? Were the single-shot carbines of the troopers outmoded? These are a few of the questions.

Let's go back to that fateful day of June 25, 1876, and, after reviewing the facts, perhaps we can answer some of those questions—at least to our own satisfaction.

There were, of course, no such things as machine guns; the closest thing was the Gatling, and Custer didn't have Gatlings. He had refused to take them when General Terry offered them to him, assuring Terry that he was strong enough without them.

The battle, beginning in broken draws and hills by the river, ended up on grassy, sage-covered slopes rising to the ridge and over into the draw on the other side of the ridge. There were no trees or rocks. There certainly was no time to dig fortifications. The Indian warriors swarming up from the miles-long camp in the trees along the river probably numbered over 4,000. Perhaps, in the thick of battle, Custer thought about those Gatling guns he could have had.

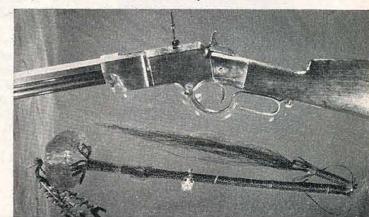
Near the end of the march, before the Little Big Horn river was reached, Custer had split his regiment of about 600 men into four groups—giving one battalion or squadron to Major Reno, one squadron to Capt. Benteen, one company to escort the pack train. The rest of the regiment, numbering some 225 men, he led himself. (Custer's immediate command of 225 was annihilated; the other battalions were



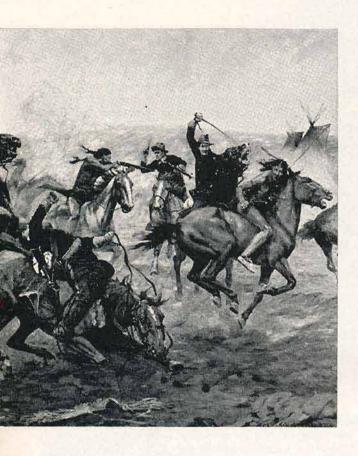
Attack by 7th at Washita led to retribution by the Sioux upon Custer.

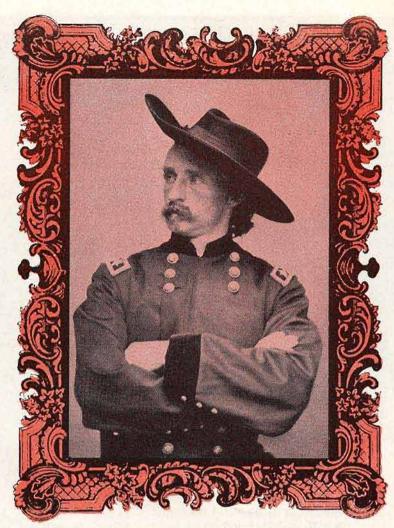


Ground today has white headstones where once lay white bones of Custer's dead. Sioux fled north, may have used Canadian Henry and war club.

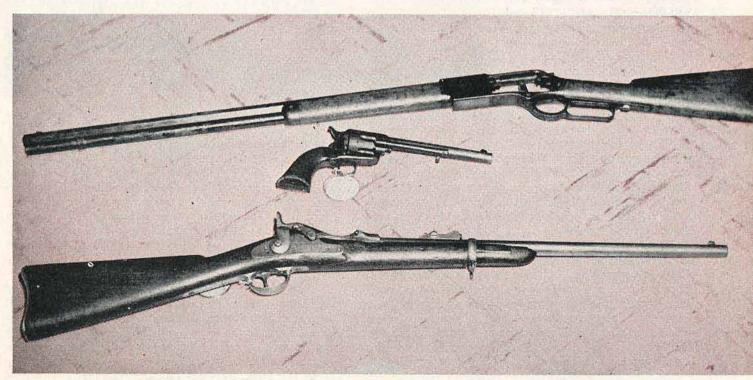


BIG HORN

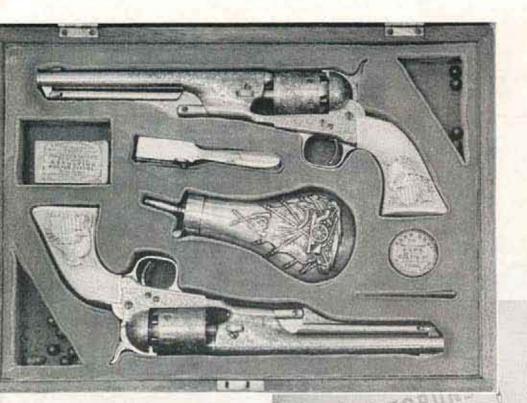




Boy general never grew up; ended starred career with blunder so big historians still split on reasons why.



Custer battle museum preserves relic M76 Winchester found on site but made too late. Colt Peacemakers under 10,000, Springfield carbines under 45,000, may be Custer relics. Genuine guns are rare.



MBIAN

Among finest of cased Navy Colts in famous Chernoff Collection, Chicago, are French-cased pistols from Stokes Kirk sale. They were once documented as owned by Custer who left them home.

Indians had motley array of arms. Bows and arrows took biggest toll of 7th troopers. Sharps Octagon Sporting Rifle in museum was fired by Spotted Wolf, Cheyenne, in Custer battle. The 1866 Winchester was found on scene by Two Whistles, Crow scout with Gibbons. Soldiers lacked not guns, but numbers.

routed and put under siege atop what is now known as Reno Hill, four miles from the actual Custer battlefield. Total killed in entire command: 315.)

There were many factors besides weapons contributing to the disaster at the Battle of the Little Big Horn. (1) Enmity and jealousy existed in the entire command, composed of Custer and anti-Custer advocates. (2) Forced marching from the time the command left the Yellowstone, especially during the last night before the battle, must have had some adverse effect on the troops' fitness and endurance. (3) There were many raw and inexperienced recruits in Reno's battalion.

(4) Custer underestimated and under-rated the Indians' strength and abilities as fighters. (5) Custer jumped the gun by one day and attacked without waiting for Gibbons' forces to join him as was previously agreed. (6) The location of the site of the battle was unfavorable to cavalry tactics... The list could be extended, with every point argued pro and con.

Another thing I have heard mentioned, was the presence of liquor just before and during the march up Rosebud Creek just preceding the Battle. Whiskey is referred to in Charles Kuhlman's exceptionally complete book, "Legend Into History." Several years ago I saw a printed circular tacked to a Lame Deer store in which some public official recounted that a sizeable quantity of "snake bite remedy" had been taken along and that there was drunkenness during the march. Who knows?

But, still, there was that factor of weapons. And that must have had some bearing on the disaster, although how much weapons handling outweighed bad generalship, it is difficult now to tell. Custer's blunders were bad enough.

Each soldier was armed with a Model 1873 Springfield carbine, of ,45-70 caliber and a Model 1873 Colt Army revolver (the Peacemaker) also of ,45 caliber. The carbines were manufactured in the Government arsenal at Springfield, Mass. The revolvers were purchased, on a contract basis, from the Colt firm at \$13 and \$12.50 each. The revolver was of the single action type, with a six shot cylinder capacity. The carbine was a single shot arm with an accurate range, in experienced hands, of about 400 yards.

While a number of the 1873 carbines have turned up at the Custer Battlefield museum through the years, not all of these were used at the Custer Battle; nor indeed could they have been since the serial numbers of some were too high and because of certain refinements added later, such as aperture butt plate (for a cleaning rod) and modification of the rear sight. As a general guide, one may assume that 1873 Springfield carbines with serial numbers up to 45,000 may have legitimate claim to (Continued on page 42)

YOU DON'T NEED TO SHOOT WITHIN ONE-

OR EVEN FIVE-MINUTES OF ANGLE TO HIT THIS TARGET.

THE QUESTION IS, HOW LONG WILL HE WAIT, AND

How Fast Can You HIT HIM?

By HOWARD C. SARVIS



This is the dream shot, the one you hope for. But he won't stay there long. Can you hit him before he leaps for cover?

THE TRACKS in the soft gray dust were almost white, the surfaces smooth and perfect, with no crumbling edge, ant trail, or vagrant leaf to mar their patterns. They were fresh, perhaps only minutes old. From the size and depth, it was a two-year-old elk, heavy from gorging on the luxurious bunch grass of Idaho, which puts on tat like grain and imparts a flavor unexcelled in any meat, wild or tame. This elk was ready for the winter—or my locker. I walked softly, with my big stick, a Remington 722 .300 Savage, at the alert.

I was on open hillside, ground with which I was thoroughly familiar, about two miles from my little hunting resort. I expected to jump this elk in a small, heavily brushed ravine about a quarter mile ahead, which leads down into the stream and cover of Boulder Creek. But alas, the tracks were fresher than I thought. In a little gully tributary to the ravine, grazing near some dense thornwood, there was my elk.

We were both startled. I can still see the up-flung head, the tilt of the proud, though small, antlers, and the streak of the smoothly rounded body as he plunged for the brush. The safety was off, the sights were almost to the driving shoulder, when he disappeared.

I followed cautiously. For half an hour I could hear him as we played hide and seek in the heavy cover; but an elk is master at this game, and I never saw him again.

In hunting and shooting yarns, perhaps it's the failures we ought to talk about most, not the successes. Some good honest word-of-honor scoring would almost certainly reveal astonishing statistics, especially if failure to shoot at all was counted as a miss. Many years of dominance by the belly shooters in shooting literature—how to attain the last fraction of a minute of angle at fixed targets—has tended to obscure the fact that live shooting, in hunting or combat, requires great precision only rarely, whereas, almost without exception, it does demand speed. Even if the target isstationary, there is no way of telling how long it will remain so, and it is this time pressure that shakes the inexperienced.

I have often analyzed my own failures. In this instance, the target was an area of at least a foot in diameter (vital chest area), 40 yards away, which figures out to about 30 minutes of angle. It was moving. I had a second and a half to thumb off the safety mount the gun to my shoulder, aim, and fire. Thousands have learned to do this kind of shooting with a shotgun, but it is a skill that is rare with a rifle because we have not recognized the problem, nor developed either a technique or a means to practice.

And the problem is not fictitious. In the fairly open wooded country of my part of Idaho, occasional long shots are presented; but my guess would be that over half of all game is shot at 100 yards or less. Some would place the percentage of close targets much higher. This proximity alerts the game, and so cuts down the time available. It also disturbs the shooter, especially if he is not used to such close contacts.

The same principle holds good for combat firing, according to many authorities. The "emptiness" of a modern battlefield has been described frequently, together with the surprise of the novice on discovering it for the first time. Point targets, in the shape of hostile personnel, are unusual except in close combat, where they are presented, moving and dangerous, at 100 yards or less. There is no point here in being able to shoot to one, or (Continued on page 55)

GUNS • JULY 1960

By ELMER KEITH

THE LONG-AWAITED Model 70 Winchester in .264 Magnum caliber is now a reality, ready and waiting for the 1960 hunting seasons. The new cartridge is based on the same blank as is used in the .458 African and .338 Alaskan, and is to be called "The Westerner." It comes in two bullet weights: a flat-based 100 grain at 3700 feet velocity, and a 140 grain at 3200 feet. Naturally, I much prefer the 140 grain bullet for all shooting over long ranges, for either pests or the lighter big game.

Winchester advertises this rifle and cartridge for elk as well as for the smaller big game. On this, as a big-bullet man, I cannot agree. It should take all our lighter big game nicely, including the small barren ground caribou; but I would not choose it for elk, moose, or hig bear. The rifle is cut with a nine inch twist and the Winchester engineers tell me that the 140 grain bullet was the heaviest that would stabilize, I would have preferred a 7½" to 8" twist and a 160 grain bullet. But this doesn't mean that I don't like this rifle; I do. It should just about fit the dreams of any man for a long range, flat shooting rifle; and its

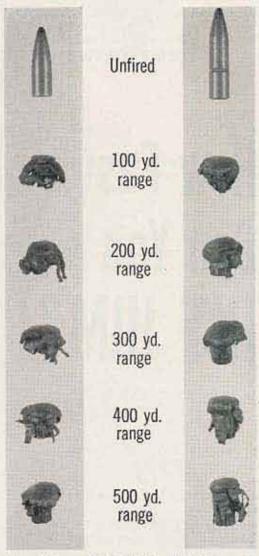
ballistics are close to amazing.

The cartridge case is huge for the bore for most all LMR. powders, and Winchester loads it with a special ball powder of very slow-burning characteristics. Hodgson's 4831 will work in the new cartridge, and an even slower burning powder would no doubt be advisable.

We received rifle No. 465286 for test. Action and trigger of this rifle was rough, but it has a very fine barrel. We fitted it with a Bushnell 3X-9 variable-power scope with command post and cross-hair reticle in Bushnell Model 70 mounts. The scope and mount performed perfectly on this rifle. In fact, it seems an ideal combination

for such a high velocity, flat shooting, long range rifle.

The rifle is slim, trim with a three-shot magazine. Barrel length is 26", necessary to burn the huge charge of slow-burning ball powder properly. Stock is Monte Carlo comb, type P.G., just right for scope use but a bit tight for the folding leaf rear sight. However, that folding rear sight in conjunction with a fine hunting scope is ideal for this rifle, or most any hunting rifle. Should the scope be damaged or put out of commission, the rifleman still has a good set of open

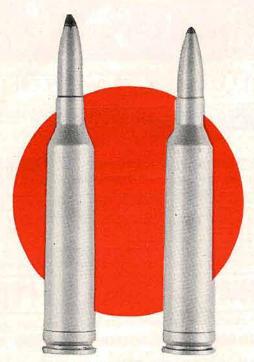


New "Power Point" bullet of .264 is major partner of development. Expansion of two good bullets, 100 and 140 gr. are shown.

The .264 Winchester Magnum



PEOPLE FORGET THAT KEITH, ADVOCATE OF
BIG CALIBERS, WAS ALSO "IN ON" THE DEVELOPMENT OF MANY HIGHVELOCITY LOADS. HERE IS ONE HE LIKES



Belted .264 case required new metal working tricks to make.

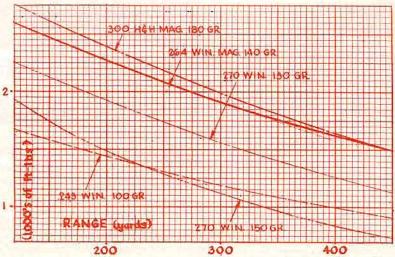
iron sights available.

Many rifles require a bit of breaking in before they settle down, but this rifle started right to work. The first five-shot group at 100 yards was under one inch in spite of a puffy side wind. We found the 100 grain load at 3700 feet drifted more in the wind than did the 140 grain load at 3200. Both bullets are well designed for long range work and employ heavy jackets with serrated tips for certain expansion out at long range.

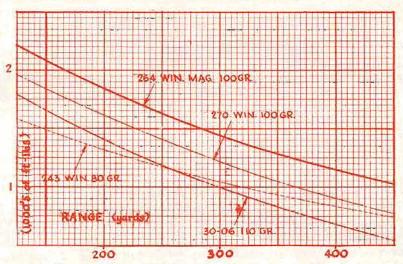
The 100 grain load is a whiz for exploding pests. Jack Nancolas and I tried it on jacks up the Pahsimeroi valley. The big sage bunnies were very wild and there was not enough snow to concentrate them. The closest

shots were around 175 to 200 yards. At that range, they were simply exploded. Jack wanted some rabbits for bob cat baits, but the 100 grain .264 left little to be picked up except stray legs and ears. Driving around in his four-wheel International truck, Mrs. Keith and I stood up behind the cab and had some fine shooting. We would tap on the top of the cab when we sighted a rabbit, and Jack would stop the truck and kill the motor. Then we had a fair standing bench rest over the cab. Out at 300 yards, the big rabbits were still badly exploded. We killed them out to 400 yards, and when you held dead on at that range with the rifle sighted for 300 yards, it still nailed the jack. Expansion was good out at 400 yards, putting a big hole through the bunnies but without the explosive effect we experienced at 200 yards or less. We used up most of the 100 grain ammunition on rabbits and sighting in the rifle.

After a lifetime usage of all manner of long range rifles on game of all sizes, I came to the conclusion that this .264 Magnum should prove a wicked killer on all types of pests up to and including coyotes and eagles, using the 100 grain bullet. My last shot that day with the .264 was at a jack at around 400 yards, and we clearly heard the plunk of the 100 grain slug striking. He never moved again. Jack's



On Big Game load energy vs range chart .264 is above others, nearly equals .300 Mag. at plains distances.



Varmint 100 gr. .264 load tops popular competitors but on all charts .243 also shows up as very useful round.

last four shots at around 400 yards accounted for three jacks. He is a very fine game shot; one of the best I have ever hunted with in a lifetime in the hills.

Unlike the .338 Winchester Magnum, which seemed to print both its 200 and 250 grain bullets in the same group at 100 yards, this particular .264 Magnum printed the 140 grain bullets about 4 to 4½" lower at 100 yards. The rifle had to be resighted for the heavier bullet load. Speer gives the 140 grain 6.5 bullet a sectional density of .289. This is better than the 6mm in 105 grain weight (sectional density .254), and better than the .25 caliber 120 grain (sectional density .258), but does not equal the sectional density of the 170 grain .270 at .317, nor the great 275 grain .333 O.K.H. at .354.

Sectional density is what counts most in a long range rifle for remaining energy and velocity out where the game is actually struck. When combined with high velocity, it is very effective even at extreme ranges, so long as velocity is high enough to expand the bullet. When a small bore bullet stops expanding, it is all done as a game killer; it will then be effective only if large bones or spine or brain are hit. Thus we see that the 140 grain .264 bullet looks better than the 180 grain .30 (Continued on page 56)



Ye Old Hunter is all heart!

To Oth Henter Charteners all weapons by gereal were-implied photographs so you can see how they WEALLY look!

FANTASTIC, but TRUE, TRUE, TRUE! I You've asked for them and HERE they are. Just in from all points of the compass with still more to come! A new selection of the world's greatest-by the world's greatest value bringer. EVERY one a FEATURE billing, but all in one ad for your full selection. Insure all your choices now with a prompt order.

* AMERICA'S GREATEST SHOOT

U. S. ARMY MODEL 1917 CALIBER .30-06 RIFLES! !



TIBED OF PAYING OVER 540 FOR A U.S. ARMY 30-06 RIFLE? So was YE OLD HUNTER, as he want not and now believe me this "SPACK AGE" SPECIAL and U.S. ARMY MODERN 39-06 RIFLE GIVEAWAY WITHOUT PRECEDENT! The latest and last model U.S. Army bolt action 39-06 tibe, and strongest U.S. Army bult action RYER made. . U.S. Arms 18 18 19 17 30-06 filter designed in nock as sholen, complete with mestic microsorter receiver sight (where it belongs). For you believe the cities with the belt and safe are already designed to scope classable. This same strength action can be converted to take virtually ANY artificiens but it already absolute the BEST OF EM ALL, the fautastic U.S. 30-00, available in every spot in the good of U.S.A.1 (The most lightly developed carridge ever model).

(A tew "like mint" selected specimens on hand for you ultimate Model 1017 Bayeauty 51.75.

WINCHESTER AND LEFT-HAND MANIACS!



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callable new? Millions of this incredible weapon that hiszed its way to implicit of and beard, adamy in flering statement were his very life to almostrone respect equalities. Pertainately the victors can still be yours with a present critic rule; see the equalities, Pertainately the victors can still be yours with a present critic rule; so that the property of the

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How To Accurize Your



Guard meets resistance 1/2" or less closing, affects bedding pressure.

By CHARLES R. McCLELLAND

War II rifle is being released in ever increasing quantities, there will be many questions raised by the proud new owners of U.S. caliber .30 M-1 rifles when they find that the groups they fire are not as tight as they would like.

Most of the M-l's generally available today are run of the mill, rapidly produced brutes that will keep up with or surpass any other similar military weapon in the world, but which will not produce match results—not, at least, without a little tuning. Therefore, unless you are one of the more fortunate, able and willing to sweeten Uncle Sam's coffers by about \$170 by purchasing a National Match model M-1 through the Director of Civilian Marksmanship, you will probably have to be content with one of the standard models now available through many outlets. The standard model in new condition sells for about \$100; less commercially.

The standard model can be made to perform practically as well as the match model by applying a few tried and proven gimmicks. Anyone who can use a sharp Boy Scout knife should be adept enough to do most of the suggested alterations; alterations that are, by the way, essentially the same as the accurizing methods employed at the Springfield Armory in the production of the National Match Model. If you do run into problems you can't handle, consult your local gunsmith.

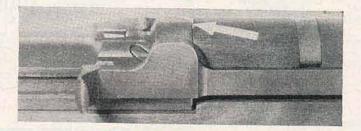
The primary difference between the Standard model that is issued to the G.I.'s and the National Match version is in the barrel. Tolerances for the match barrel are held close to those of commercial target barrels, whereas the standard barrels are made a little looser to avoid malfunctions in combat. Let's not go into more technical comparison of the two barrels; suffice it to say that the match barrel is more accurate due to greater coddling during manufacture. This is what you would have paid for with that extra \$70, and it's a condition you can't alter with a jackknife. From a safety standpoint, however, both barrels, as well as the action, are said to be as strong as any manufactured today.

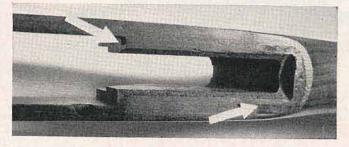
For accuracy's sake, let us look at some of the exterior features of the M-1 that will often more than offset the quality of the barrel. Barrels expand and get longer when they are heated through firing. This expansion, if impeded in any way, will cause the barrel to bend ever so slightly, but enough to throw the bullets far from a tight group on the target.

Generally, this normal expansion will be hampered by either the handguards or the rear loop of the gas cylinder fitting too tightly. This will usually result in vertical stringing of bullet impacts. To cor- (Continued on page 39)



Receiver needs a clearance forward of rear curve. On handguard ends, leave 1/32" for heat to expand.





Action beds where arrows point. You may relieve and pack cuts with a glass bedding to improve shooting.

CASTRO'S SECRET ARMS FACTORY

(Continued from page 21)

forward trigger fires semi-automatically; the rear trigger full-automatic. Comacho has reworked the trigger mechanism so that only one trigger is necessary to obtain both semiand full-automatic fire. To obtain single shot firing, you pull the trigger back only half way. To get full-auto you pull the trigger all the way back and hold it.

A ventilating tube covers the barrel and allows placing the hand over the barrel when firing the weapon from the hip. The front sight blade is 1/8" thick and consequently much too big to get any kind of a sight picture thru the small aperture of an M-1 carbine sight fitted just behind the

Butt stock is too short for comfort, but Comacho is willing to sacrifice comfort for maneuverability. On the butt is Comacho's personal insignia-a wheel, standing for the wheel of progress, broken at the top by an atom bomb which signifies the great change in technology that has been wrought by the bomb. Under the word "Atomica" which crosses the diameter of the wheel are hills and a palm tree which represent the area of Escambray where Comacho fought, All his men had shoulder patches with the same design, and he named them the "Atomic Guerillas."



San Cristobal SMGs seized by barbudos from Dominican arms shipment to Batista were carried in Havana in triumph.

Comacho nicknamed this weapon the "La Siguitrilla" which, in Spanish, is the word for wishbone. It is an old Cuban custom to say that whenever you get the best of somebody or defeat him "you break his wishbone." Comacho so-named this weapon as the hill-built prototypes contributed heavily to destroying the local Batista forces.

The old Spaniard, being an exponent of the "point where you shoot" school, has placed a groove for the forefinger on the right hand side of the stock above the trigger. The second finger then becomes the trigger finger.

"This gives you accuracy at short ranges when you don't have time to sight," claimed. "Just point your finger, pull the trigger and you have yourself another dead man." Of good design, "La Siquitrilla" will not be produced because of high costs. The modified Sten will satisfy Cuba's need for SMGs at present.

Comacho has had a thorough and wellrounded background in armament manufacture. One of three who graduated out of a class of 46 in metal work at a school in the Canary Islands, he then studied metal and armament manufacture in Saragoza, Spain, and at advanced schools in Madrid and Truvia. His first job was supervising the manufacture of 7mm, cartridges in the early 30s. When the Spanish Civil War broke out in 1936, Comacho was placed in charge of converting 33 factories from tov production to munitions. His shops produced ammunition and a prototype of the Sten gun, which he developed, some of which are still seeing limited use amongst Franco's forces.

After the war was over, Comacho was lured back to Spain from France where he had sought exile, with promises of amnesty. His trust was betrayed, and he found himself looking at the countryside through bars, Three months of plotting hatched an escape plot, in which he helped set fire to the prison and escaped to Venezuela in a sailboat.

For the next 18 years he knocked around Latin and Central America from one revolution to another. He provided technical advice and assistance, as well as a trigger finger, for the various revolutionary groups trying to kick the "in's" out so they could become "in's."

He finally drifted over to Cuba in one of the numerous expeditions and wound up in charge of ordnance for the rebels fighting Batista in the Escambray area of Cuba.

At first he built his machine shop around small hand files which were hand forged to the necessary shape, and a good supply of bench tools. His potential was considerably increased when he was presented with a welding machine and a turret lathe that were "liberated" from a nearby copper mine.

In the course of a year, his shop turned out about 179 different weapons, mostly copies of the M-1 carbine adapted for .45 cal. ammo, as well as repairing a multitude of types of weapons.

One of his prize creations he showed me, was a copy of the 9mm. Browning automatic pistol, nickel plated and set off with black plastic handles. The barrel was shaped out of tubes or drills from a pneumatic air hammer: the slide and frame out of metal from the track of a wrecked bulldozer. By making the handle slightly longer than the Browning model, and by fashioning a clip spring that was shorter but of stronger steel, he was able to get the bullets further down in the clip, to hold 16 rounds rather than the customary 14. This particular model in the picture was hand forged; others since were cast. This first copy was made with only hand tools and a small lathe.

Comacho utilizes his "aiming by pointing" technique with his Browning copy as well as with his "La Siquitrilla." The forefinger rests along the frame; the trigger being pulled by the third joint of the second finger. Consequently, the palm of the hand is on the right side of the handle rather than directly behind the frame.

Comacho says that you can hold the





OFFICIAL PISTOL OF MANY NATO NATIONS GREATER FIRE-POWER! - 14 cartridge capacity. 133% greater than any centerfire revolver and 55% greater than any other center-fire pistol.

8 SAFETY FEATURES — Perfectly safe to carry loaded. Accidental blow on hammer cannot discharge gun.

REMARKABLE ACCURACY stems from extra rigid barrel mounting, full grip and fine balance. Penetrates ten % inch boards at 15 feet.

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weapon in this manner and get the advantage of "pointing it with your forefinger" without losing your grip, as the recoil of the weapon is thrown into your hand rather than away from it. He explains this by saying that the reverse twist of the rifling in the barrel, which is clockwise (as compared with American custom of rifling barrels in a counterclockwise manner) channels the force or kick of the weapon to the right or into your hand; counter-clockwise rifling tends to pull the weapon to the left or out of your hand.

Another creation, which I did not see, was a submachine gun dubbed the "M-44" which, he claimed, had a cylic rate of over 2044 rounds per minute, being fed from a 72 round clip. The main disadvantage, according to its inventor, was that "you needed a whole munitions factory for one weapon."

"I trimmed trees with it, so I know it is good for trimming trees," comments Comacho.

"If I could reduce the cyclic rate by onehalf, which I think I can, it will be the best machine gun in the world." He claims it doesn't heat up because of a "double venti-lating system." This suggested the idea that an air stream for cooling is produced by power from the moving bolt.

His makeshift arsenal in the hills developed a type of fire grenade launched from a rifle by an altered grenade launcher. This heast launched a type of Molotov cocktail about 200 meters, but lacked accuracy. When the bottles landed they broke and flared up with the same effect as a Molotov cocktail. The shop also turned out tank and antipersonnel mines, grenades, and 100-lb. demolition bombs designed to be dropped on



In mountain hideout Camacho hammered out grenade shells. Famous gunner after liberation shaved his beard.

fortified positions and concentrations of personnel.

Many of these weapons created in the mountains during the revolution will find a permanent home in a "Revolutionary Museum." One is being set up in an old naval station near the entrance of Havana Harbor, across from Morro Castle.

This latest example of Cuban arms production demonstrates this country's ability to supply its own military needs, from domestic production and using its own inventors, if need be,

> You'll want GUNS QUARTERLY in your library. Order Form page 60

PULLI

(Continued from page 14)

cational association for the use of classroom teachers, is truly unique! "Shooting and Hunting" sells at two dollars for single copies, and is obtained from AAHPER, 1201 16th Street, N.W., Washington 6, D.C.

Now that the sun is shining over all parts of the land, we can report some results from the "Grapefruit League" in Florida Mid-Winter Chain shoots, without arousing envy in the many trapshooters who were snowbound while the Mid-Winter events were in progress

. . .

It isn't exactly news to report that Arnold Riegger took both ends of a day's program at Cigar City Gun Club in Tampa, during the Gasparilla Mid-Winter. He did have to survive shoot-offs with my old shooting buddy, H. W. "Sonny" Hines of Carmi, Illinois, and with E. A. Ross of Uniontown, Pennsylvania.

Some class winners from the Gasparilla shoot were Walter C. Grubbs, Horse Cave, Ky., in Class B; John M. Otters of Cedars, Pa., in Class C; Andrew Welter, Lamont, Illinois, in Class D. James Null, Jr., from Grover, Missouri, in Class B, was tops for the second event, Jim Smith, Lyons, N. Y., took Class C, and Class D went to E. K. Rothwell, Mt. Pulaski, Illinois.

Mrs. Merna Chelovich of Chicago was a double winner in ladies' events.

S. P. Hartman of McKeesport, Pa., took the Pirates Handicap at the Gasparilla set-to. Jesse McKinley, the Brooksville, Ohio, marksman, edged Floridian Luke Sadler by one bird for the Cigar City Handicap Champion-

Dick Morrison of Morristown, Tennessee, broke 477x500 to win the preliminary event of the Sarasota Inaugural, One target less got Pete McMillon of Kansas City, Kansas, the Class B toga.

Van Marker, a converted Ohioan, garnered Class C with 457x500, "Sonny" Hines, Boyd Williams (the shooting goods man from Michigan), and Mr. Trapshooting, Arnold Riegger, tangled in a shoot-off for the Cigar City 16-yard Championships at Tampa. Hines put on an extra burst of pressure and won this one.

William Hays, the Elizabethtown, Kentucky, shooting colonel, took the Gasparilla Handicap with a record 98x100. Ray Bisnett of Decatur, Michigan, did not win an event during the Gasparilla, but he was a steady contender, and his highly respectable 862x 1000 won him the over-all handicap championship. Lynn Crawford, the Harvey, Illinois, flash, was runner-up.

Attendance was high at all the Mid-Winter Chain shoots, many of the events setting new entry records. Could be that the crowds and scores of the Grapefruit League portend another record year for trapshooting in the United States, and point to perhaps another record-shattering entry in the Grand American, come late summer.



30 CALIBER CARTRIDGE \$200 each pastpaid. Sorry No C.O.D.'s. RUSSELL BAEHR 42 Hawthorne

RECONDITIONED REMINGTON ROLLING BLOCKS Cal. 11mm (.43) NEW SHIPMENT JUST RECEIVED NOW ONLY Don't miss out on this rere opportunity to add one of these oldtimers to your collection at low, low cost. Made by Remington nearly a century ago and gunsmith-reconditioned to look almost new. A masterpiece mantlepiece or den decorator, in superb shooting condition, complete with cleaning rod. Shipping weight 12 lbs. Overall length 50 inches. AMMO FOR THIS RIFLE: 100 rounds (5 boxes), \$7.50—100 rounds (loose), \$6.00 (Misfires naturally to be expected.) 1898 MAUSER BARRELED-ACTION-NRA GOOD CONDITION

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ACCURIZE YOUR M-I

(Continued from page 36)

rect this condition, remove the gas cylinder lock screw and locking ring, then drive off the gas cylinder by placing a block of wood against the bayonet lug and hammering the gas cylinder free. The rear barrel loop should then be lightly sanded with fine emery paper so that a sheet of writing paper can pass between the loop and the barrel. In reassembling the gas cylinder assembly, be sure to tighten and keep tight both the front sight and gas cylinder lock screw as additional aids to accuracy.

The handguards should also be removed, and enough wood whittled from the ends to permit about 1/32" travel of each handguard along the barrel when assembled. In this connection, the band between the two handguards should be very firmly attached to the barrel.

Horizontal stringing of the bullet impacts is usually the result of the operating rod touching the stock or upper handguard during its rearward movement. At the instant the gas is bled off the barrel and pushes against the operating rod, the operating rod bends slightly due to the offset in the operating rod and the reverse reaction from the bolt, etc. This bending occurs before the bullet leaves the barrel. Therefore, if the bent operating rod rubs either the stock or the upper handguard, the flight of the bullet will be altered.

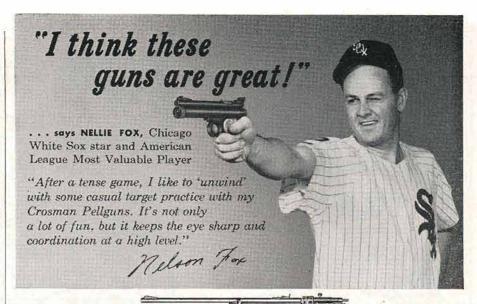
Slick worn spots will show on the wood if the operating rod is rubbing. These can be scraped away with your trusty Boy Scout knife, and the surgery covered by using a little walnut stain and linseed oil.

Another point that may need a little whittling is the contact area between the receiver and the stock to the rear of the recoil shoulders. Upon the discharge of the cartridge, the receiver vibrates like a tuning fork. If this vibration is not properly dampened, a twisting action can be set up in the rifle which will impair accuracy. The back of the receiver should only touch the top of the stock over its rearmost end, and should leave a horse-shoe shaped print about 11/4" to 11/2" long on top of the stock. The stock should not touch the receiver to the rear of the recoil shoulders other than at the horse-shoe print mentioned.

Speaking of the recoil shoulders, inspection of the inside of the stock will indicate whether there has been equal pressure applied to each shoulder due to the firing of the rifle. Unequal pressure can be corrected by slightly scraping the shoulder that indicates the most wear. A few shots from the rifle will re-bed the action and indicate whether additional stock material will have to be removed.

Inadequate clamping of the action into the stock is another point that may adversely affect accuracy, since no rifle can shoot to a consistent point if the stock is not held securely to the action. Correct clamping will be had when the trigger guard develops resistance on closing. This should start when the trigger guard is between 3/8" and 1/2" from its locking point behind the trigger.

If the locking distance is greater than 1/2", no good purpose will be served and the locking lugs will wear rapidly. This can be corrected by removing a very small amount of wood under the floorplate. If too little clamping action is indicated (which is more



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likely to be the case), then the stock bearing points under the floor plate will have to be built up slightly by shimming or by using plastic wood or any of the commercially available glass bedding products.

All of the foregoing steps to increased accuracy can be performed by the novice shooter. No attempt is made here to cover aids to accuracy by honing or altering the trigger and hammer mechanism. Usually, more harm than good is done to the rifle when work on these parts is attempted by the amateur. Take it to a gunsmith.

However, before coming to any earthshaking conclusion and making any alterations on your rifle, shoot it enough to become thoroughly familiar with it. Know exactly how it will shoot "as is," so that you can make the correct diagnosis and then

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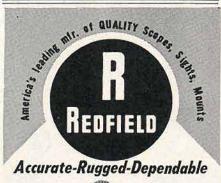
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NEWSPAPER BACKS WAR ON CRIME

(Continued from page 27)

active shooting members of their police pistol teams. Responsible for this turnout was the community service program of the daily newspaper of Bergen County, New Jersey, the Bergen Evening Record.

Bergen County, New Jersey, is the fourth wealthiest county in the United States on the basis of per capita income and wealth. It is a booming, expanding area, both population and business soaring to record heights. A great deal of this growth took place over the past five years. Coincident with the growth of the county has been the growth of the Record.

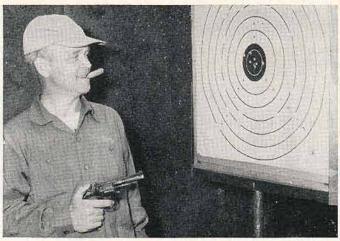
With its news columns spotlighting crime after crime, it became evident that one of the most urgent problems demanding a solu tion in Bergen County was that of law enforcement . . . how to keep crime from getting out of hand.

this first match. To help pave the way towards a large turnout, the newspaper ran lists of the entrants from each town. Under the spotlight of newspaper readership the police forces of most towns involved came up smelling like roses, with nearly 50% of the available policemen in the county appearing on the firing line.

As the police chief of one town put it, "Any of my men who don't shoot in this match will have to personally answer to me as far as their excuses are concerned, and they had better see that there are no excuses!"

In June of 1956 the Record held the first of its police pistol matches, open free to all full time law enforcement personnel in Bergen County.

Thirty rounds of Western .38 Special factory target ammo were furnished to each



Garret Cronk, Westwood, won in '57 with one 9, all rest 10s.

The most obvious first line of defense to this problem was that of well manned, well trained, and well equipped police forces. A main criticism, and a valid one, had been the lack of firearms proficiency on the part of the average cop. In many cases the policemen had little or no training with their weapons, nor were they engaging in practice shooting or competitive pistol matches. The real hot shots comprised but a fraction of the total men on the force; upon all of whom rested the responsibility for protecting the over 700,000 people living in Bergen County.

As part of its community service program, the Bergen Evening Record decided to promote the idea of more firearms practice by all of the police in the area, not just those who were already top shots. In doing so, the newspaper hoped that the matches would not be an end in themselves, but would be a means towards stimulating a greater interest in the shooting proficiency of the police, by the police themselves and also by the townspeople. Without question, it may be said that the cop who is interested in shooting becomes a better cop, interested in improving himself in every way possible.

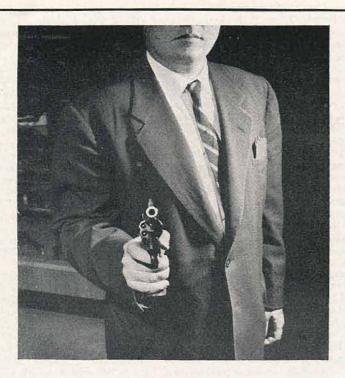
The reader service department of the paper swung into action, and was able to get the interest in the venture of the police chiefs of the county. A committee was then formed of newspaper representatives and a group of the chiefs. Each police force in the county was informed of the matches. Soon, quite a bit of enthusiasm was being generated for

shooter by the Bergen Evening Record. The newspaper, to do this, invested about \$4.50 in each man, all as part of its community service program. The course fired in these matches was the official police qualification course using police L targets with X-ring. Twenty-four trophies were presented in each of the '56 and '57 matches for indivdual and team accomplishment, and each participant was presented with a silver bar indicative of his shooting rank earned; Distinguished Expert, (285-300); Expert, (255-284); Sharpshooter, (225-254 or Marksman, (195-224). These bars are officially approved to be worn on the uniforms of every Bergen County policeman.

The shooting was done under the direction of the Bergen County Police Chiefs Association at the Fair Lawn, N. J. Police Pistol Range. The match started at 7:30 a.m. and continued throughout the day until every shooter desiring a chance on the firing line had had his turn. A lunch counter was set up at the range for the convenience of the shooters and spectators. An added attraction for police and spectators as well was a demonstration of pistol shooting ability by Chief of New Jersey F.B.I., Harry J. Foster.

To picture the response to this match, compared to a normal police match, Chief Louis J. Risacher of the borough of Fair Lawn went through the entry cards from a previous shot. He found that only 14 county law enforcement agencies were represented, includ-

(Continued on page 42)



SURVIVAL ON CITY STREETS

By DEAN H. OBRECHT

DAILY NEWS REPORTS make it perfectly clear that no one is really safe on city streets at night, or even sometimes by day. Unprovoked and usually motiveless attacks by gangs of young punks (such as those who recently killed a Korean student at the University of Pennsylvania simply because he was the first person to come along) have steadily increased. Savage muggings and stabbings for purposes of robbery or worse have become so commonplace that nearly everyone who has lived in a city of any size has a story of such an attack on himself or an acquaintance.

It is obvious that the present level of police protection is totally inadequate to prevent these attacks, and it is also apparent that a police force large enough to really guarantee day or night safety would be fantastically expensive, more than any city could maintain even if it could recruit men in such numbers.

The problem, then, is to restore a semblance of public safety—to destroy street gang rule and intimidation—with roughly the present expenditure for police protection.

The answer is really quite simple, though not easy of attainment. The right of the citizen to arm and defend himself must be restored!

Let us admit at the outset that this solution has problems. It would be silly in the extreme for every person on the street to stalk along with gun butts projecting from every pocket—which is the picture painted by opponents of gun law relaxation, who dolefully predict TV-style gun fights at every fender-crumpling or back-yard argument. This is of course absurd.

But since present police protection cannot protect us, and since we will not pay for the police armies necessary to protect us, the only possible solution is the armed citizen, and city governments must be persuaded to re-establish this right. At the same time, any hint of organized "vigilante" activity must be squelched. We want a return to order under law.

Leaders in police organizations today are

advising their less enlightened brethren against the ancient and thoroughly idiotic notion that if no gun permits are issued, only policemen will have guns, and all violent crime will cease. Even so, it is unlikely that city governments will drastically liberalize firearms laws in one swoop; and so, placing survival ahead of principle, I propose that we at first adopt a more limited objective-that, initially, the police be permitted (as now) to choose who should be given life insurance, but that they be required to issue such insurance in the form of gun permits to at least five men in every hundred of the city's law-abiding citizens. Let the police continue, if they wish, to play happily with serial numbers in quadruplicate, erroneously but blissfully confident that they know the location of every pistol in the city. The point is to be sure that the guns are there, in good hands, ready to serve their purpose.

What is that purpose? Not, necessarily, to kill criminals. The guns may not, probably will not, even need to be fired. Listen:

It is evident to anyone that the ruthless street gangs, one of the principal menaces to citizen safety, are composed of punks . . . cowards. They normally attack only with striking numerical superiority, even when they are sure their victim is unarmed. If they ever do attack on an equal numerical footing, it is because they know they possess the advantages of surprise and weapons. Suppose, instead, we gave these pitiful, swaggering would-be tough guys the certain knowledge that an appreciable number of their intended victims would henceforward be armed—that every so often one of their intended victims is going to shoot a couple of them!

Given the knowledge that a certain number (statistically minor, if you will) of those attractively helpless looking people, male and female, are going about their business carrying variously concealed pistols—and the ghastly realization that they cannot tell which ones are

armed and which aren't—our petty tyrants will retire to sew more studs on their jackets and dream of a vanished empire. Perhaps their faltering egos can be sustained by telling each other how tough they are, or by fabricating increasingly Martian garb. Just possibly, if they feel they simply must kill someone to prove that toughness, they will kill each other.

It will be suggested that the police plainclothes officers now on the streets have the same effect; and so they do—except that they are so few that a mugger could hit one person per night for years without ever encountering a detective. Also, they are frequently about as hard to spot as a West Point graduate in a Legion parade.

All that is necessary (at first) is that the city fathers require the police to issue sufficient concealed weapons permits throughout the city (not just to friends and politicians) to make it evident to the hoods and punk gangs that sooner or later they will attack someone who will shoot back. It is not necessary that the citizen be a "fast gun," carrying an elaborate speed rig. A man or woman who is attacked may absorb some punishment while getting his gun into action, but the punishment should be easier to take in the knowledge that a shot or two, even if late, will even the score and, more important, end the punishment short of death. It is not even essential that the shots hitthough hits would be desirable. The crack of the gun would be enough, in most cases. The awful shock of having someone shoot back, effectively or not, will be a sobering experience, not only for those involved but also for those of similar bent who read the story.

If city authorities can be induced to take the above step, they will discover not only that the blood does not flow in rivers, but that when blood does flow, it is less likely to be that of a young mother or a peaceful working man. Actually, the flow would considerably diminish, and the city fathers might also observe, after a suitable "educational" period, that they could step out for a pack of cigarettes at midnight without organizing an expeditionary force, and that their wives could attend a neighborhood movie in groups of fewer than ten, without fear of death, rape, or injury! Even the police of the old "nobody but us cops needs guns" school might then be ready to admit that the number of police widows had not increased in direct proportion to the number of pistols in the hands and homes of honest men, and might even support our next move—a return of our Constitutional rights regarding weapons!

The writer is a college professor—in his own words, ". . . age 30, father of two boys who can shoot already, a linguistic scientist, phonetician, and language teacher.

"Considerable personal experience is involved in this article, primarily a result of three years attending night school at the University of Pennsylvania, where I had to park my car in absolute darkness and isolation about a block from where the Korean I mentioned was beaten to death. I personally survived one attempted attack (without a gun), and have since had a permit which I was able to get through local authorities. Since receiving said permit, only two potentially dangerous situations have come up; one with a group of thirsty but apparently harmless winos, and one when I found my car stopped in the middle of a teenage gang "rumble." Three punks looked me over and one said, "Let him go, he's harmless." He never dreamed that those words saved his life. I had a decidedly loaded P38 trained on his belly at the time. I have never had to 'show' the gun, but I have certainly felt safer with it.—The way to improve the situation is not to die needlessly, but to use my brain, my influence (if any), and my vote to bring about change."

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(Continued from page 40)

ing the Bergen County Police Dept., Prosecutors Detectives and Sheriff's Deputies.

Bergen County is made up of 70 municipalities ranging from tiny towns to cities such as Hackensack and Garfield. The total individual competitors numbered 69. This was considered to be one of the most popular matches with the shooters and one with a good turnout! The 1956 Bergen Evening Record sponsored match, in contrast, showed 53 different organizations within the county represented with a total individual turnout of 481 competitors! This well illustrates the role a well read newspaper can play in getting behind a good cause. These matches are now a yearly promotion on the part of the newspaper. Average participation has grown to more than one out of every two policemen in the county, an unheard of response to a police match. In 1957, for example, 106 entrants qualified as distinguished experts, 234 as experts, 99 as sharpshooters, and 56 as marksmen. Fifty-five failed to qualify for any rank.

These matches have been followed up by a letter, from the newspaper's reader service director, to the governments of each town involved. These letters list shooters and scores, and urge that those who fired and failed to qualify, or who failed to fire, be told by their superiors to practice and improve their marksmanship.

It is interesting to note that Bergen County policemen carry various pistols as sidearms, and to use in matches. Town by town there is quite a difference in Bergen County as far as required weapons are concerned. The only similarity seems to be the use of the .38 Special cartridge, Those police forces issuing target-sight handguns to their men as their service weapons are to be congratulated.

Westwood, N. J. is on the ball by issuing police two .38 Special revolvers; the Smith & Wesson Combat Masterpiece for holster gun in uniform, and a two inch barrel Colt Detective Special for off-duty use. These pistol matches showed the Combat Masterpiece to advantage as a competitive target weapon. The winner of the 1957 match, Patrolman Garret E. Cronk, of the Westwood Police Department, used it to fire a 299. (He dropped one point in the rapid fire stage.)

The town of Maywood also has a similar

firearms program. Its men carry 6-inch Colt Official Police revolvers as holster weapons and 2-inch barreled jobs for off-duty use. The only disadvantage of this is that for the patrolman to fire on an equal basis with those using target sighted guns, he must forego his service gun for a target sighted one, which he will not carry on duty. Maywood, in addition to the issue guns, keeps target sighted pistols on hand for policemen desiring them for match use.

Systems such as these are certainly superior to that used in another town in Bergen County, under which the policemen are issued NO guns by their town, but must buy their own. I was impressed and reassured when talking to a policeman from this town to find him wearing, (paid for by himself) a Colt 357. I asked him what he carried when he was off duty and he patted that powerful hunk of weapon at his hip, and told me he was a one gun man.

"They're all going to make a bulge when you wear them off duty," he said, "so I wear my 357 all the time." Here was a man to have on your side when the chips were down.

An excellent example of what just such a knowledge and skill with firearms can do for the policeman was shown when Patrolman William H. Harrington of the Englewood Police Department recently recognized a bailjumping fugitive. Harrington ordered the man to halt, but the fugitive turned and fled. After a quarter mile chase, Harrington fired two warning shots. When his man still failed to halt Patrolman Harrington felled him with two more shots, one hitting the fugitive in the forearm and one in the calf of his leg. Harrington, a trained marksman, was winner of the 1956 Record shoot. Not believing the Colt Police Positive issued him was the best gun to carry while on duty, he armed himself with a Colt Trooper. This combination of a good man with a good gun paid off.

That same skill that enabled him to shoot the unarmed fugitive in a non-vital area may some day pay off by saving his life or the lives of others by a skillfully placed killing shot. It is interesting that while Harrington's 298 score won him the Bergen Evening Record '56 match, his 297 score which he fired in the '57 match was good for only sixth place. That's the kind of high scoring police match we should see more of these

GUNS OF THE LITTLE BIG HORN

(Continued from page 30)

having been used in the Custer Battle—if found to have definite Cheyenne or Sioux association. They're real collectors' items, too. The same may be true of Colt's, US marked up to No. 8,000 at least—possibly 10,000.

As for other types of guns, researchers say that a few .50-70 caliber Sharps and 1870 Springfield carbines were among the June, 1876, arms of the Seventh Cavalry, and may have been in use at the battle. Capt. French always used a personally owned .50-70 Springfield rifle, not a carbine. Some soldiers, such as Sgt. John Ryan, had personally owned arms. Ryan used his custom built Sharps rifle, a 15-pound, tube sighted arm chambered to use the .45-55-405 Government carbine cartridge.

According to a letter from General Godfrey (describing the field as seen by him immediately after the battle) to artist E. S. Paxson, who painted one famous Custer Battle scene: "General Custer carried a Remington Sporting rifle, octagonal barrel; two Bulldog, self-cocking, English, white-handled pistols, with a ring in the butt for a lanyard; a hunting knife, in a beaded fringed scabbard; and a canvas cartridge belt."

From all the foregoing, it can be seen that the new repeating rifles had not made any inroads into the Seventh Cavalry. However, it appears that there were a number of repeating rifles among the Indian hostiles, although estimates on Indian arms used in the Custer battle vary widely. Custer Battlefield officials say that about half of the Indian hostiles possessed firearms of some kind; and of that number, probably only about 20 per cent had modern repeating rifles or breech loading arms.

For reasons of initial cost of weapon and

availability and cost of ammunition, most of the firearms of the Indian hostiles were the common muzzle loading trade rifles or smooth bore fusils, and several varieties of the popular percussion revolvers, such as the model 1851 Colt Navy, .36 caliber, A .44 caliber Remington percussion revolver was found at low water in the ford where many Indians crossed the river to attack Custer's immediate command. This very battered and rusty weapon is on display at the Battlefield museum.

Most of the Indians' rifles were muzzle loading, not because they especially liked this type but because the newer guns were so expensive and because the metallic ammunition was costly and not always easy to obtain. For example, any good gun cost an Indian the equivalent of a year's buffalo hunting-about 25 fine head-and-tail tanned buffalo robes. Were this not the case, it is probable that most of the Indians would have owned the .44 caliber, rimfire, Model 1866 Winchester 12-shot carbine, a favorite with the Indians. But, in spite of the high cost of this lever-action repeater, some of the Indians did own and use them during the battle, as previously mentioned; and many of the copper A4 rim fire cases for this rifle were found on the Battlefield.

Extensive study of this famous site by Park Service scholars has turned up a good many relic guns. Found on the Custer Battlefield many years after the fight (now on display at the Battlefield museum) is a .44-40 Model 1873 Winchester carbine, Another arm displayed, found on the Battlefield and presumably Indian-owned, is a Model 1849 Colt percussion revolver of .31 caliber.

One of the most interesting finds was a relic .50-70 Springfield rifle, found with its stock repaired at the wrist with rawhide wrapping, but broken off, and the forearm and barrel bent by having been purposely smashed-treatment usually accorded arms captured from Indians or found to have been used by them. As some guns were found at the location of the Indian village in the valley, Museum officials think that this last may have been one of them.

Incidentally and this may come as a surprise to many people—there were no sabres carried into battle by the Seventh. Sabres were sent back when the cavalry left the Yellowstone River and headed up the Rosebud.

Finally, let's consider the frequent claim that the soldiers were plagued with empty shells sticking in their guns, Don Rickey, Jr., Park Service Historian, has agreed that certainly some of the more than 600 carbines used here by the troops must have malfunctioned as regards the extracting of the empty shells. (Nearly 25,000 .45-70 cartridges were fired by soldiers in the Caster Battle,)

"But of the hundreds of empty cases I have collected and examined," he says, "only one or two show any evidence of having been pried out of a breech with a knife or other sharp instrument, Possibly some of the carbines were put out of action when the extractor failed, but it is quite likely that this factor has been given undue importance in previous studies of the Battle."

The human element also gets its share of blame in Colonel W. A. Graham's fine, unhiased book "The Story of the Little Big Horn," in which the author attributes lack of fire-control to the headlong rout of Major Reno's forces from the valley bottom.

"There appears to have been little or no fire-control during the fight in the valley," Graham writes, "The men shot away their ammunition both recklessly and rapidly, and when the survivors reached the hills, more than half their scanty store had been expended."

From Graham, Custer indirectly gets some well-deserved criticism. "The pack-train . . . which had in charge all the reserve of ammunition, had been left far back on the trail, to struggle along as best it might. The men of the three battalions carried only one handred rounds apiece of carbine ammunition, and four loadings, or twenty-lour rounds, for their pistols." The author concludes that "not one of the three fighting battalions had ammunition sufficient for prolonged combat . . ." In other words, the "Boy General" had it all figured out that the Indians were trying to escape, and he wasn't going to be held back by any slow-moving ammunition pack train while those Redskins were getting

There were many factors connected with the Little Big Hern fight. Added up, they totaled disaster. The massacre was caused not only by shortcomings in weapons and ammunition. But shooters often wonder what the outcome of the battle would have been, if the troops had all had repeating weapons with sufficient ammunition.

Mystery of details will always enshroud the Custer Battle. In the end, the causes, direct or indirect, of the final disaster itself, relate to the character, the previous conduct, the leadership and tactics of you-knowwho, General Custer's luck had finally run out, and every Indian on the plains

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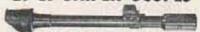
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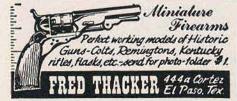
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HANDLOADING BENCH

By KENT BELLAH

.303 British Loads

THE SUN NEVER SETS on guns chambered for the .303 British cartridge. They are widely used to bag everything. It did very well in the hands of ivory poachers in darkest Africa if you count up the tons of ivory they collected. But, of course, that doesn't mean it's an elephant rifle.

The .303 British is much like our .30-40 Krag. Safe charges for our outrigger magazine piece can be used in the British number with bullets of equal weight and design.

Shiploads of surplus .303's are in this country. Those in good condition are suitable for any game that a .30-40 Krag will bag. Scope mounting is not a do-it-yourself job on any of the Enfield 1914 actions, but gunsmiths make alterations so they take Buehler, Williams, and other mounts. The "Remington 30" type of conversion is most popular. For the SMLE's, Williams makes good sights and mounts.

The .303 is called a "bastard .30" because generally .311" bullets are used rather than .308". Groove diameters may vary quite a bit

must use them in a bore of

bullets, and must use them in a bore of unknown dimensions, and the cartridges chamber freely, at least start with powder charges fully 10 per cent lighter than "standard" and work up, provided extraction is easy and you have no indications of excessive pressure. This statement is not for you old hands who are skilled in loading ammunition, but for beginners seeking information. Working up charges with your particular components and gun is basic, and applies to most all calibers of rifles. Check out your 8mm pills by dropping one in the mouth of a fired factory case of the make and lot number you plan to reload. If it doesn't drop in freely the bullet is probably too large for your chamber.

This trick doesn't tell you anything about the bore. But a tight throat can raise pressure fast, and the increase is at the worst possible place. Thrust is increased on the vital case head and in the chamber. I like bullets fairly close to groove diameter in most rifles. This nearly always allows the necessary couple of thousandths or more



from the listed .311". Winchester and Remington both supply loads with a 215 grain bullet starting at 2180 feet per second. I think lighter pills are better for most use, and certainly for deer-size game in open country. Larger game might require heavy slugs for deep penetration at low velocity, and you do get it with a .303.

Handloaders may have some difficulty unless the correct diameter bullet is used. If you can't slug and mike your bore, your gunsmith will do it. I've never seen a tight bore, but a friend has one that shoots .308 bullets with good accuracy. Some writers of yesteryear recommended 8mm bullets. The .303 is also a "bastard 8mm" because .323" pills are too large for the bores I've seen. Loaded ammo sometimes fails to chamber and, if it does, pressure will definitely increase.

Some 8mm bullets are only .318". They can be used with loads carefully worked up for oversize bores. I do not consider them correct for barrels with grooves near .311" or .312", as measured by someone who knows how to slug and mike a bore with a quality mike.

If you happen to have a supply of 8mm

clearance in the vital throat area. Tight throats (or oversize bullets) cause high pressure and poor accuracy. Extremely sloppy throats give poor accuracy. Military arms often have slightly sloppy throats, but seldom tight ones.

Brass thickness of the .303 British case varies quite a bit. Norma wisely supplies loads with 130 grain bullets starting at 2790 feet per second. These are real little hellers, using some 42.4 grains of Norma 101 powder with breech pressure only 39,910 pounds per square inch. You get the same ballistics with 38 grain DuPont 4198, but pressure jumps over 3,000 psi. It's still well within the maximum recommended 45,000 psi limit.

Norma's 180 grain boat tail bullet starts at 2410 f.p.s., using 39 grains of their 101, or 38.3 grains of DuPont 3031. Norma ammunition is excellent, and the above are both good loads. I recommend cutting the listed charges a grain or so for reloads.

The 215 grain Norma slug starts at the same 2180 f.p.s. as U. S. ammo, using 37.5 grains of their 101 powder, or 37.7 grains of our 4064 that gives a little lower pressure than the Swedish propellant. All Norma bullets are .311", and of the four diameters

that handloaders sometimes use, I consider this size correct. Norma hulls are excellent for reloading with U. S. primers.

Maximum case length is 2.21", and of course hulls should be trimmed before they exceed this figure. There is no harm in trimming a few thousandths shorter, so long as a uniform length is maintained. If you use a Forster trimmer, you can use their accessory neek reamer, quickly running it into case mouths after they are once fired. This insures necks will be uniform in diameter, and prevents a variation in pressure. After half a dozen firings you can trim and ream again, although cases in this caliber do not stretch nor thicken very fast,

Thick necks, long cases, and old, brittle brass are the major causes of handloading troubles. Neck reaming does not insure concentric neck walls, like Forster's Outside Neck Turner that is used to condition cases for extreme accuracy. But cases trimmed and reamed will be safe, and uniform in length and inside diameter. After trimming and before deburring, a fast visual inspection will show any necks that are very thin on one side. These are discarded. This is not quite as accurate as using a case wall mike, but I've found it good enough for superb accuracy with fine rifles, and certainly adequate for hunting loads.

Remington or W-W hulls are perfectly okay. However, I like Norma best in this caliber. CCI primers are my choice, with W-W second. CCI gives fast, positive ignition, even in old guns with a light firing pinblow. They have excellent and uniform sensitivity. They help indicate excessive pressure. without causing it with an excess of primer gas. The powder charge is only one of many factors that can cause high pressure. Loads that are safe may be inaccurate due to something that causes a considerable velocity and/or pressure spread. Carefully loaded ammo, using uniform components, reduces this to a minimum. That's why we often hear of remarkable groups with guns that are called "clunkers."

Just for the record, I'm not a clunker fan. I'm justly proud to own a fine battery of guns. But, if you have only fine guns in your rack, you're missing some fun. You need a few clunkers; guns that may look beneath the dignity of the country club set. These used, inexpensive pieces are favorites of meat hunters, farm boys, and beginners who want shooting and handlending at minimum cost. (I'm sorry for a guy who doesn't own a pair of khaki pants in addition to his business suits.) It's fun, with a piece that looks like something picked up at a dump ground, to make it group like a fine commercial rifle. If you haven't tried it, you'll be surprised how many clunkers will do it. You'll also be surprised how many people will pay more than the going price when they see one perform.

The .303 British is dandy for low cost plinking with cast pills. Lyman's No. 311299 Gas Check weighing about 206 grains is good. For once I go along with Lyman on the .312" sizing diameter. This is apt to be right in most rifles. A home mix of 10:1 lead-tin can be used for moderate velocity plinking. Linotype metal is harder and better. Better results that can always be duplicated later will be obtained with a quality commercial mix. Illinois Bullet Alloy No. 7 is a fine, easy casting rifle mix. Ideal No. 2

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Most bullets designed for the 30-40 Krag can be used in the .303. Best results will be obtained with gas check designs. I haven't played with too many cast pills in a .303, but some sized .308" gave lousy accuracy, while the .312" diameter shot well. A good many "standard .30"" moulds are in circulation that throw castings large enough to size to ,312". These are just dandy, Too much sizing deforms bullets, and the closer a casting is to final diameter, the better. If you buy a mould for .312" sizing it may be too large for "standard .30"" use, if you size to around .309" as I do. It is true that moulds will very often do double-duty for standard .30's and the .303, but you'll generally need two diameters in the sizing die.

An excellent hunting load is the Norma case packed with CCI primers, 42 grains 4064, and 150 grain Speer bullets No. 311-150-6-SP, Velocity is over 2650 f.p.s., and pressure in one SMLE rifle was moderate. Gunsmith John H. Romig, McClure, Pa., likes the same load with 41 grains of powder, listed in Speer's handbook at 2635 f.p.s. John made up a couple of good shooting pieces, one a 1917 No. 3 Enfield, the other a 1943 No. 4. He says this load in either sporter makes the factory 215 grain number look sick at 300 to 400 yards, and I believe it.

John's No. 4 has a three layer stock using one piece of cherry and two pieces of walnut, that gives fine accuracy.

Such stocks do not appeal to me much, It's simply a matter of taste. They shoot well and hold zero if correctly made, despite claims by some people that they don't. I've seen some fine French walnut stocks clobbered up inside. This may be one reason why some think light sporters won't shoot.

A friend is shooting 43 grains Hodgdon 4895 salvage powder in W-W cases with CCI primers, and Sierra's ,311" diameter 180 grain pill. This might be hot in some rifles, with some lots of powder.

Speer lists this charge with their 180 grain No. 311-180-GP-SP as a max, load in Norma cases. I'd start with about 38 grains of 4895 with either make of bullet or case, and work up if desired. If your lot number of powder happens to be a little fast, you won't be in trouble.

If you want to change from 4064 powder, that works well in this hull, 3031 is a good het. Start with 3 or 4 grains less. 3031 is one of the most versatile large rifle powders. It's flexible enough for small bores like the .220 Swift, and right on up to the big .375 Magnums. Starting from scratch, you'll have to work up, of course. Like our .30-40 Krag. the .303 isn't a Hi-V number, and you shouldn't attempt to get Magnum ballistics. None of the British Enfields are suitable for souped-up loads, or conversion to hot calibers. None are the most beautiful examples of long guns, but at current prices they are a lot of gun for the money. (The cartridge should not be confused with the lower powered 303 Savage, that is somewhat like the ,30-30, and uses a standard .30 caliber bullet.)

YOU CAN BE A BULLET ARTIST

(Continued from page 23)

long ranges; you need to be close to get the hair-line accuracy you're seeking, and you need to be close enough to see the bullet holes and the line on which you want to place them.

Something like a week and two cartons of lead later, I could manage a fairly respectable line either up and down or sideways. (All right, I hear you gun nuts muttering. "Why not?" says you. "From a bench rest? At twelve feet?" Okay; so you think you can do it at fifty feet. So try it. Maybe you can do it. But I'd risk a small bet, maybe a nickel, that if you start at fifty, you'll be cutting that range down some before the first box of shells is empty; and still more with each of the first half-dozen boxes thereafter, A line is a narrow target.)

Anyway, now you can draw a line-what can you do with it? The idea here is not to outshoot Hotshot Harry down at the range, or to win a potfull of medals; the idea is to draw something; something you can show. What you need now is a pattern; your name in large script, or your house number, or a picture of something or somebody. Better choose something fairly simple, at first. Even then, getting it on paper even in pencil can be a chore if you're as bad an artist as I am. If you know somebody who can draw, you've got it made. If not, it might pay to look up the gadgets on the market that will help you expand a signature or picture to shootable size. Artists use protractors; metal or wooden frames that operate one pencil on an expanded scale while you operate another in tracing the actual object. Another solution is an inexpensive projector (advertised by mail order houses) that will project a snapshot, a letterhead, a picture from a magazine, or other suitable subjects, onto a white background in almost any size desired. It's then a simple matter to trace an outline and any other necessary lines onto a large sheet of stiff paper or cardboard, for a pattern.

To shoot out designs on cardboard or paper, the bullet boles can be spaced approximately half an inch apart. To knock out permanent patterns on tin or aluminum, the spacing should be at least three-quarters of an inch. An inch is better.

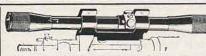
You will soon learn (by trial and error if you won't believe me) that letters and numerals should be no less than six inches high. A figure 1, for example, shot with oneinch spacing, will require seven shots for the vertical line; two or three more if you put in the finishing "head" and "foot." Wherever one line connects with another, it's better to have an odd number of holes because it is easier to take off on the new line from the middle of the one completed. In shooting a letter H, for example, verticals seven shots high give you a center hole as a starter for your crossbar.

Portraits just don't come out well if less than 20 inches in width. Smaller, they somehow have the appearance of having been

(Continued on page 48)

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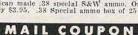
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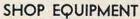
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(See also pages 37, 57, 64)



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(Continued from page 46)

done with a shotgun.

Lightly trace out your pattern. Then, if you do not trust your sense of distance, use a ruler or flexible tape to place a pencil dot on each one inch graduation along the lines.

It isn't always possible or even desirable to have every hole work out precisely on the inch. It is not desirable because quite often a curve or other small detail should be emphasized with shorter spacing. It isn't always possible either, for a hole should always appear at each corner, at every line intersection, and at every ending. This demands using some fractional part of an inch for the connecting holes.

The marks you have made on each of the lines should now be enlarged with ink to about the size of a .22 bullet with ink. India ink makes the sharpest aiming point, though crayon or even pencil will serve.

After a few practice sessions, eliminate these aiming points and try following the lines themselves with properly spaced shots. Now that you have the knack of it, you will find it easier than you would ever have suspected at first. But even if you stop at the dot stage, it's still a box-of-bullets-worth of fun. But don't stop there. With a bit more practice and a shenanigan or two, you can turn out beautiful works of art at which your friends will gaze with awe and then rush off to tell far and wide of your incredible ability with guns.

What do I mean, shenanigans? Be reasonable; you wouldn't expect me to expose my professional secrets, would you? . . . You would? . . . Well-okay. Simply place another piece of cardboard behind the one having the dots, Shoot out your pattern, and presto. Behold a neat piece of bullet artistry without any tell-tale lines or dots. This peculiar kind of witchcraft, needless to say, will have to be brewed behind barred doors and heavily curtained windows. This, of course, even your ardent admirers will find hard to understand, once they detect it. But there's an out. Expend a little more time and effort in memorizing a simple design to cut out before admiring eyes. It's an ego-booster.

To save grief when working with tin or aluminum, use a thin piece of white cardboard in front of it. The bullet holes are easier to see, being dead black against the white background, and you avoid misguiding light reflections that come from torn metal. The cardboard holes are considerably smaller than those punched in the metal, too, thereby giving better reference points for placement of the next round. Also, you get two jobs for the price of one-something to consider nowadays.

Experienced performers usually shoot from a kneeling (or sitting) position for steadiness' sake. But unless you're better than average in these not-very-comfortable positions, better forget it to start with and use a rest of some sort. No need for making any phase tougher than it really is.

What type of gun is best? Pros use .22 autoloaders for bullet art work. I agree; autoloaders are faster and easier to work with. This does not mean however, that a pump action, lever action, single shot, or even a target rifle cannot be used. True, they slow up the process, but who's in a hurry? We're just relaxing-having fun.

Sighting equipment is something else

again. At least it is for me. I haven't any use for hunting-type sights, front or rear, when target shooting. But then I use aperature rear sights constantly; they're on all my rifles. I have enough trouble aligning one sight on a target without having to contend with two. And that remaining sight, the front one, has to have sharp corners and be flat on top. Blackened, too. Big fat round blobs on front sights were never intended for tack-hole accuracy. An aperature rear, even in inexpensive hunting types, and good blade front sights, are a darned cheap way of separating the crab grass from the Merion Blue, if you know what I mean.

The rifle I am using at present is Remington's latest, the Nylon 66, equipped with a Lyman 53cs hunting type rear aperture. The front sight remains 'as issued' at the factory, and it's a honey: wide, square, and sharp. Through no fault of the engineers who designed the sight, its width is perfect for running horizontal or diagonal lines with bullets. By placing the last hole at the extreme edge of the sight, the next bullet will be spaced almost perfectly on center. This happenstance may or may not hold true for every owner of the 66, or other shooters having extra wide blades on their rifles; but with a little experimenting, a system of spacing can be worked out using the front sight as a guide. It is just possible, too, that some shooters may prefer a thin blade for this work. You'll have to work this one out for yourself.

As mentioned earlier, bullet art is most frequently done at a distance of around twelve feet. A rear sight set for fifty feet will shoot far below the line of sight at twelve. It will have to be jacked up considerably to hit dead center. For best results on the dot system, I find the bulls-eye should float well atop the front sight, just high enough to distinguish the entire dot without blurr. You can't hit what you don't see clearly.

Perhaps I have given the impression a .22 caliber firearm should be used exclusively when writing with bullets. If so, we'll correct that situation immediately for such is not the case at all. Since this is more or less a home-basement form of shooting, spring-air guns, pellet guns, BB guns, CB caps, even miniature calibers, can be used. The distance is short, and any well made gun will lay 'em in there.

Does the mention of air guns bring to mind any other ideas? It does to me: kids. Kids love new games. There may be a few black eyes in the neighborhood when Jr. first informs his cronies he drew those pictures with bullets from his own gun, but kids being kids, there'd be black eyes anyway, over something-and once Jr. proves his point, he'll be a hero. What's more, he'll give the old man a rough time at this game. His eyes are better.

Finally, in case you should need more information on other intricate problems that might arise in your pursuit of this pastimedon't look to me for the answers. I haven't got that far myself, yet.

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THE PEOPLE vs. THE SULLIVAN LAW

(Continued from page 25)

When he finished, he received a standing ovation, as did other opposition speakers.

None of the gun laws at Albany even purported to stop the hardened criminal or the professional gangster. Of major concern, expressed by the emphasis on juvenile delinquency, is the irrational or spur-of-the-moment assault. The trend of aggravated assault in the Empire State is significant. From 1953, with the same age-old Sullivan Law in operation, through the next five years, robbery more than quadrupled, while assault zoomed five times to a 1957 high. Apparently the legislators had not looked at the statistics, for in 1958 the assault rate dropped. Through all this time, as it has since 1911 when Big Tim Sullivan bulldozed his law through the Legislature, the Sullivan Law has been "protecting" New Yorkers. The inescapable fact revealed by the actual crime rate is that the Sullivan Law does not have any effect on the criminal activities of New York's less civilized citizens. Echoing this sentiment, one pro-gun speaker conjured up the ridiculous thought that if the gun bills were passed, it would be just a matter of time "before you outlaw baseball bats because one was used to bash in somebody's head."

The one glimmer of good sense was a bill that did please the gun fans. Sponsored by Assemblyman Edwyn E. Mason (Delaware County), Assembly Resolution No. 63 would create a committee to study gun and ammunition laws. Key part of the Resolution is that the Committee must "avail itself of facilities and cooperation of organizations acquainted with the use of such weapons."

In former years, a similar resolution was sponsored by Malcolm Wilson, now Lieutenant Governor and still concerned that this type of legislation be workable and reasonable. He and his colleague Mason—the latter describes himself as a gun collector, saying he is "deeply disturbed by the constant attempts to wear away our statutory right to keep arms"—are but two of many New Yorkers working toward effective law en-

forcement to curb crime.

This battle has been fought since before the ink was dry on the Governor's signature to Big Tim's much-mooted bill. The first blast at the Sullivan Law came from a man who had faced far more hoodlums, at least over a gun, than had ward-heeling politico Tim Sullivan. This man was William J. Burns, founder of the detective agency of this name.

Writing in Recreation Magazine for August, 1911, two months after passage of the Sullivan Law, Burns stated truths which have been re-stated countless times since then. In "The Public and The Pistol," Burns wrote;

"Common sense justifies the owning of a good pistol by every respectable householder. If it were possible by the simple process of law to compel every honest citizen to own a pistol and know how to shoot straight with it, and at the same time to disarm all criminals of pistols, there would be less work for detectives to do. Any law which acts as a deterrent to the buying of pistols by lawabiding citizens is a detriment to the suppression of crime."

(Continued on page 51)

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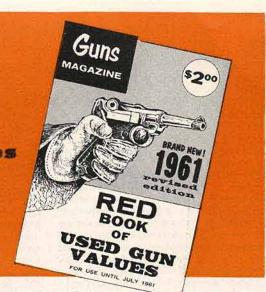


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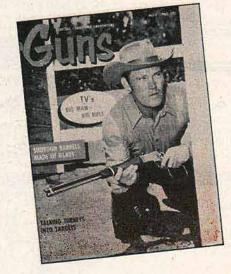
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(Continued from page 49)

After examining the statistics of homicide in New York then, of which 40 per cent were committed by men with criminal records, Burns concludes that only 21/2 per cent existed "for which it is possible to attach any blame to the pistol." The averages he figured conform closely to the recent National Safety Council statistics of deaths by gunshot.

"Considering the pistol's usefulness in preventing murder, burglary, larceny and other crimes in the homes of law-abiding citizens, it seems to me," Burns continued, "that 21/2 per cent of possible, though I shall not say probable, discredit, was a pretty small peg for the New York legislature to hang its new anti-pistol law upon."

The annual wave of modern anti-gun bills seems to run true to form, and Burns would have found the Albany hearings of last February 25th very much to be expected.

"Most of the major bills introduced during the 1960 session providing for restriction of firearms and ammunition were either killed in Committee, or defeated," said Assemblyman Mason. . Of the other opinion, Bernard Ruggieri, New York City's legislative representative to the Assembly hearings, disputed the reference to the city's crime record and insisted that laws could reduce crime. He said that laws barring the sale of switchblade and gravity knives had been followed by a substantial drop in their use in crimes. ... And disputing this, a noted New Yorkarea gun dealer poses one question for the record: "Why is it that the Sullivan Law has not been used to arrest one single big-time gangster?" The dealer mentioned information from a N. Y. City detective who, he said, had "been on the tail of Albert Anastasia for eight years." According to this detective, Anastasia (noted hoodlum and felon) had twice been apprehended while in possession of an unregistered operating machinegun, but in each instance no case was brought to court. The Apalachan meeting of "syndicate" heads, many of whom bore valid New York state permits to carry guns, placed the subject into the ridiculous class.

But the Sullivan Law was not without its ridiculous aspects even in Burns' day, when a notorious criminal, more often in trouble with Big Tim Sullivan than with the police, sewed up his pockets and had his bodyguard do the pistol work. Too many times he was arrested when on truly "innocent" errands, because at the last minute some one of Big Tim's boys slipped a junky old .38 into his side pocket.

But times and people do change; only the problems seem to remain unaltered. "More teeth" have been applied to the Sullivan Law during the past 50 years of its existence in hopes of accomplishing an end to gun-crime, and still crime continues. The Sullivan Law is long overdue for a face-lifting-or repeal. Its effect today is ably summed up in the experience of Robert K. Murray, of Bronxville. Murray explains that his interest in target shooting has fallen off for two reasons:

"First, there is just too much red tape involved in the annual license renewal in this area; and, secondly, there just isn't any place to shoot." Repeal of this law would certainly be welcomed by the Robert Murrays. Whether gang rumbles would increase is another question. Before becoming too optimistic, let us hear what Sgt. William P.

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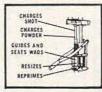
(See also pages 4, 13, 14, 46, 52, 54, 55)

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"Since 1936 when I was designated in charge of the Pistol Permit Bureau, I do not recall any legislation advocating the repeal of this law. Each session of the legislature produces a number of bills suggesting changes in the firearms laws, with the majority of such measures favoring the tightening of the law. During the 1959 session there were 20 bills introduced, but only one became a law-the so-called amnesty law, which permits the surrender of handguns with immunity during the month of June under certain conditions."

Actually, not many people favor the Sullivan Law, They include those whose basic aim is an unarmed populace; some policemen; and some crackpots who feel anyone with a gun is sure to destroy some of God's little creatures.

Karl T. Frederick, Chairman of the Board of Directors of the New York State Conservation Council and a past president of NRA, said:

"So far as I have been able to make out, the only responsible people who are in favor of such laws are some district attorneys and police officials who appear to believe that their tasks would be made easier by disarming everybody. In fact, the result would be that honest people would be completely disarmed or greatly inconvenienced without there being any more effectual disarmament of the crooks than fifty years of the Sullivan Law has produced."

Michael Petruska, president of the New York State Conservation Council, said:

"Almost all of the clubs would favor amendments to eliminate some of the red tape in obtaining a pistol license. Our Committee is studying the problem.'

The "red tape," says gunsmith David Soule of Bemus Point, is often badly administered for personal reasons by the licenseissuing authority.

"He can, if he wants to, or he does not have to, if he does not feel so inclined. It puts into the hands of the police the authority to issue this permit," Soule explains.

"They should not have the 'privilege.' They are naturally suspicious of everyone; the upper echelon officers, with few exceptions, are generally presumptuous of anyone else's intelligence or their ability to handle firearms. Most of them feel that to simply own a handgun puts you just about on the brink of running amok and destroying half of the community, including a few policemen."

Out of 50 states, the Sullivan Law is one of the most severe, most uncompromising, most unreasonable, and according to general interpretation, most un-constitutional laws. Those are some of the reasons why rifle and pistol clubs, conservation groups, and sportsmen throughout New York State are so deadset against the law in its present form. The law just isn't doing the job police and responsible citizens now consider it was intended for. For all the severity of the Sullivan Law, New York State, where it is in force, has one of the highest increases in crime rate for the whole country; proving once again, as it has in past years, that the Sullivan Law is not now, has not, and will not prevent crime.

Generally, legislative proposals have been aimed at tightening the law. Unfortunately, a logical objection has always been handy for the pro-gun advocates-the argument that no person with criminal intent would trouble to have reputable character witnesses sign for him, be photographed, be finger printed, sign before a notary, and list by caliber, serial number, make and model every handgun he owns before dashing out to hold up

a gas station.

The reason this logical objection is in part "unfortunate" is explained by Edward G. Dillon, counsel and Executive Director of the N. Y. State Sheriffs' Association. Dillon explains, "Many groups and individuals are concerned with the problem of guns, and especially the N. Y. Police Department, This organization has unique problems because of the size and complexity of the city's population. Shooters, on the other hand, resent any and all attempts to tighten gun laws. This attitude breeds misunderstanding.

"I believe the rifle and pistol groups should support realistic amendatory gun legislation. They haven't, maybe because the proposed legislation was not realistic. I firmly believe too that law enforcement people should not ignore the rights of rifle and pistol people. There must be an area within which devoted

people on both sides can agree."

Such areas of agreement are difficult to find while so many law officers think in such uncompromising terms. One New York County chief wants to put all guns in one big armory. To take out a weapon-still the private property of the individual-the owner would have to see the Chief or his Deputy and obtain a permit to draw the piece for issue for a limited time and specified place, returning it immediately the shooting match was over! On the other extreme, one New York State police chief okays permits with no more than a cursory examination of the applicant's police record. If clean, by all means give him a permit, is this Chief's idea; and why not?

He feels the licensed shooter is just one more person he doesn't have to worry about. Yet it is indicative of the pressures in New York law enforcement circles that this Chief forbade us to quote him by name!

The idea of honest citizens owning guns seems to worry some officers. Deputy Police Commissioner James J. McElroy got himself into quite a bind, in 1958, by ruling that shooters could only own three guns. He tried to place the blame on the newspapers, particularly the outspoken New York Journal American which was publishing names of mobsters who had pistol permits over the years. Eventually, McElroy backed down, and the ruling was reversed. But the "battle" continued.

In 1959, Police Chief William A. Sullivan of White Plains gained momentary publicity by saying shotguns and rifles should be included within the scope of the Sullivan Law. Fortunately for New Yorkers, this new version of laws by Sullivans did not become (Continued on page 54) effective.

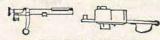
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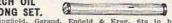


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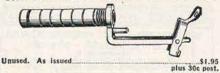
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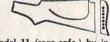
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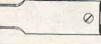


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(Continued from page 52)

Most recently, counsellor William George of the Hudson County (N.J.) Police Chief's Association and a former assistant county prosecutor, in a statement that verges interestingly close to a libel of any New Jersey. licensed competitive pistol shooter, demanded further checks on gun carriers "or the floodgate to a hidden army of potential hoodlums will be opened." George demands that target shooters be required to fire their pistols on ranges "run by police departments or military organizations," checking the guns with the range officer until the next shoot. How this will improve scores and where the police budget will furnish range officers for the thousands of competitive shooters, Counsellor George did not say. But this, he claims, "is the only check on the growing army of potential lawbreakers who can carry guns under out-dated laws." At that, gun law publicity is cheaper than paid political advertisements.

The story can go on and on. Beginning gun cranks know the score slightly; those who have been shooters and collectors, especially those of us in police work, realize even more how critically bound up in sound legislation is the whole sport-shooting program in America. The problem of "The Public and the Pistol" remains usually a local matter. So it is with the Sullivan Law in New York State. Lip-service has been given to the notion of trying to get a "Sullivan Law" in other states, most recently as a part of the Illinois Criminal Code. Examining such a proposal are some of the best legal men of the State. Some of them are shooters and gun collectors, aware of the need for order and

enforcement of good laws, and equally attentive that the shooting fraternity will not be "sold down the river."

Some of that sentiment obviously exists in New York, as Sheriffs' Association attorney Dillon tried to point out. But the problem is not easily solved. Even so astute a group of practical and well-informed people as the National Conference of Commissioners on Uniform State Laws, has had to give up on gun laws. The work which this body has done (unifying interstate commerce legislation) is too well known and important to downgrade any opinion of the Commission, And after twice modifying the "model" pistol law, the Commission has abandoned the project,

"Although the matter of revising the Uniform Pistol Act was under consideration by the Conference in 1958," states Miss Frances D. Jones, executive secretary, "it was decided that there was such a conflict of interests involved that it would be impossible to draft an act which would be acceptable to all and which would receive wide adoption by the States."

According to Miss Jones, after three years spent in legal brainwork preparing the most recently revised Uniform Pistol Act, only two states adopted it! Faced with the record of half a century of anti-pistol law in New York State, the National Conference could see no clear course to pursue in its legislative recommendation. Even presence of New York attorney Alfred A. Buerger of Buffalo did not shed any light on a muddled subject.

Now, for nearly fifty years, the Sullivan Law has had its dictatorial rule over gun permits in New York, Crime continues, rising to heights, fluctuating to depths. Rate per hundred thousand inhabitants of manslaughter and murder, of aggravated assault, of burglary and armed robbery, have their ups and downs in New York State as elsewhere. Twice a year for years past, the F.B.I. has compiled and published a list of factors which influence crime rates. At no time has licensed or unlicensed gun ownership been listed as a factor. Still there continue rumbles and roars over gun laws. Will they ever pay off? Will the State Legislature at Albany ever revise the statutes of the Sullivan Law to be more favorable to the firearms enthusiast, instead of unnecessarily restricting his pursuit of sport or collecting?

The February 25 meeting held one glimmer of hope this might come about. With one exception, the bills proposed were all bad, unreasonable and in most cases, unenforceable. This one exception may be the start of a long fight to get more thinkingfair thinking-in gun legislation. Assemblyman Mason's resolution called for funds to create a joint committee of the State Assembly and Senate to study the problems of possession, sale, and use of all types of firearms, and this committee was to act with the cooperation and advice of "such organizations" as the New York State Conservation Council and the National Rifle Association.

At press time, this resolution had not passed, Assemblyman Edwyn E. Mason believes his resolution has an excellent chance of winning at the next session of the legislature. The fact that the two sportsmen's organizations were mentioned by name, and that scope is left for others to be represented in the deliberations of the "Gun Law Committee," holds some promise of a brighter future for gun fans in New York State. After 50 years, it is a beginning. . .



HOW FAST CAN YOU HIT HIM?

(Continued from page 31)

two, or three minutes of angle, with an expenditure of a substantial amount of care and time. There is a requirement to hit a moving area 20 minutes or larger in a couple of seconds.

In this matter of areas to hit, target range practice is unrealistic. In order to keep the visual, or apparent, size of target and sight about the same at all ranges, the targets are made larger as the range increases. This is nice for Sunday afternoons, but unfortunately a deer-or an enemy-does not halloon himself up as he goes away. Twice as far away, he is only one-fourth as large in area, and possibly more than four times as difficult to hit. This difficulty has intrigued shooters for years, making them try for greater and greater skill in precision, and totally obscuring the hard fact that live targets are most likely to be close by, thus requiring no precision at all, but stringently demanding great speed and self possession.

A front bead sight 3/32" wide is about 10 minutes of angle at usual barrel lengths. Projected to 100 yards, this is 10 inches, or roughly the size of the vital area on a deer; at 150 yards, it will be the vital area on an elk or a man. Up to these ranges, the target area is always larger than the sight; beyond, the target is smaller. At the closer ranges, the sight can be placed anywhere on the target, but speed is essential before the target vanishes. At farther ranges, the target is placed on the sight and must be carefully eentered there; an operation requiring more time, which is often available.

This brings out a rough rule of thumb; If the target-vital area-is substantially larger than the front sight, it requires only coarse shooting, which means only approximate placement, but with considerable speed. If the target is the size of or substantially smaller than the front sight, all the elements of fine shooting should be brought into play. The problem is summed up below:

	Oppor- tunities Offered	Procision Required	Time Avail- able	Proportion of Training and Practice
Coarse Shooting	70%	20 to 40 min. angle	2 to 3 Sec.	10%
Fine Shooting	30%	5 to 10 min. angle	5 to 20 Soc.	90%

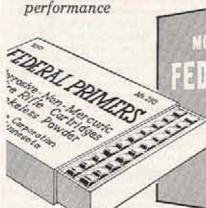
However, the above may be changed to suit individual opinion, there can be little quarrel with the general idea that there is a great blank spot in our concept of learning to use the rifle on live targets. The fact must be that thousands-millions-of riflemen have taken the field, a-hunting or in combat, who have never in their lives fired a 3-second shot,

Coarse shooting is not just a sloppy variant of fine shooting. The two are totally unlike, not only in relative sizes of target and sight, but in other respects; they require entirely different sorts of self-discipline and practice. The principles of fine shooting are well known and will not be discussed here. To prepare for coarse shooting, three T's must be considered: Target, Time, Technique.

TARGET: It should not be a bullseye or other geometric abstraction, but should represent an animal or man, with the vital target area plainly delineated. For dry firing or We don't have to make elaborate claims . . .

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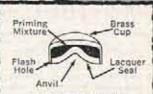
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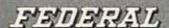
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EL PASO SADDLERY Box 7274-C, El Paso, Texas small bore practice, these should be scaled to size, or they can be full size and placed at true ranges (of 100 yards or less). They should be moving, or movable, if possible, but a great deal of practice can be obtained with fixed representations. The movements should not be straight across the vision, from flank to flank. Game, or enemy, will rarely appear to move that way, but can be expected to jump erratically from side to side, perhaps only two or three body widths, occasionally in a fairly uniform angular direction,

Many kinds of improvisations are possible. I have rigged up a fairly good moving target presentation for a 30-foot 22 range, by stretching a tight wire in front of the bullet trap (big box of sand), with a running loop of wire carrying some prongs. A target is cut to scale and attached to the prongs; strong threads through screw-eyes pull it back and forth. The threads run back to behind the shooting position, and a friend pulls them alternately, making the target jerk back and forth very realistically. It took about 20 minutes to install. Something similar might be possible at full ranges.

TIME: A pacing device is required. I filehed the metronome my daughter had for her piano lessons. It was electric, but the windup type is just as good. I set this ticktock to count 120 beats per minute, or halfsecond intervals. I would pick up the count, and count aloud, from the moment I began to raise the rifle and throw off the safety; the last count was when the hammer fell. One-two-three-four-five, click! That would be two seconds to get the sights on the target. (There is always an extra count, the first one.)

I started trying to get it within three seconds, seven counts. With practice I was able to get it down to a second and a half, four counts. Two seconds is better, and surprisingly easy-after learning how. A metronome is not absolutely necessary. Any kind of device, a door buzzer for example, that will make a noise and can be adjusted

for time interval, will do perfectly well. TECHNIQUE: This took experimenting. The first principle is right stance. It is the shotgunner's (or boxer's) position, knees unlocked, body crouched slightly forward and loose, gun at the waist or low port. It must be relaxed, not tense. You can move better from a relaxed position. This is the sort of position you would be in if you were moving outdoors and encountered a sudden live target.

The second principle, and the one most difficult to learn because it is totally illogical, is deliberation. When the count begins, or the target is seen, begin to raise the gun very very slowly, throwing off the safety as you go. The movement gradually accelerates but is always smoothly controlled. The gun reaches the shoulder and the sight reaches the target-anywhere on the target, remember-at about the same instant, and only slightly before the smooth, rapid pull of the trigger.

The whole thing is a continuum, as in using a golf club or baseball bat, only more deliberate. Whereas with those implements you keep your eye on the ball and, somehow, your muscles bring the club to meet it, with the rifle you forget the sights and keep your eye on the target, waiting for the sights to appear on it, which they will, almost magically. After some practice there should be little or no wavering of the sights off and on the target. On the contrary, if, in trying to beat the time limit, you throw the gun violently to the shoulder, you will probably find that one or two of those precious seconds is wasted settling down to steadiness.

In time, you will be able to dispense with the pacing device. You could invent a little phrase and practice with it; a sort of subconscious chant. This you can carry out in the field with you. Here is one that takes about two and a half seconds to say:

"Take-it-easy, brother, you've-got-plenty-oftime!" Bang! . . . and there's liver for supper.

THE .264 WINCHESTER MAGNUM

(Continued from page 33)

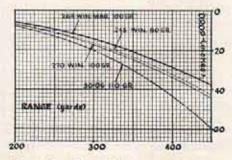
caliber with its sectional density of .289, but not quite equal to the 200 grain ,30 caliber with sectional density of .301.

As it is now loaded, the 264 Magnum should be the dream gun for all high velocity fans. Winchester charts show it has five inches less drop from axis of bore at 500 vards than the 270 Winchester 130 grain load, eight inches less drop at 500 yards than the 100 grain Winchester .243 load, and a good 13 inches less drop than the 180 grain .300 H & H load. At 500 yards range the remaining energy of the 264 Magnum with 140 grain bullet is practically identical with the remaining energy of the 180 grain .300 H & II Magnum; in fact the graph shows it slightly beats the .300 Magnum, However, energy figures and graphs do not tell the whole tale, and I would rather land a 180 grain bullet on a big game animal at 500 yards than a 140 grain, even though both did have the same remaining energy. The 30 caliber would open the larger hole, if expansion was equal for both bullets. On this remaining energy chart, the .243 and .270 fall far short of the two above loads at

With the 100 grain bullet, the .264 Magnum badly beats the .270 100 grain for energy at any range out at 500 yards; also the .243 with 80 grain, and the .30-06 with 110 grain. When it comes to drop from line of bore out at 500 yards, the 100 grain .264 Magnum drops just 49 inches, as against a drop at that range of 55 inches for the 80 grain .243, 57 inches for the 100 grain .270, and a full 80 inches for the 110 grain .30-06.

The .264 should prove the ideal rifle for all pronghorn shooting in this country and for the smaller antelope of Africa. It is the coyote hunters dream, and properly placed

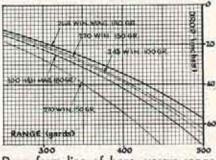
Varmint Cartridges



Drop from line of bore, versus range.

should take all our lighter big game and be ideal for eagles and long range hawk shooting. (Right now, before some of the bird watchers tell you the eagle does no harm to big game, I would like to state that the late Capt. Harry Guleke helped me gather up enough mountain sheep lamb legs under one tree containing a golden eagle nest to equip nine lambs with three legs left over. I killed one of the old birds and found him stuffed with mountain sheep lamb meat. I have seen

Game Cartridges



Drop from line of bore, versus range.

golden eagles take both mountain sheep lambs and young mountain goats. I saw one kill a coyote, and have seen them kill full grown mule deer on several occasions; so I know the grand old bird for the killer he is. They still account for most of our mountain sheep lamb crop here each year. The .264 Magnum should be one of the finest loads extant for use on these killers.)

Winchester is to be congratulated on producing just what the high velocity fans have so long wanted in this 264 Magnum. It is a wonderfully accurate rifle and cartridge; Nancolas, Andy Hagel, and I have all made groups well under one inch and some that were but little over a half inch at 100 yards from bench rest with scope sight. I believe it will prove tops as a vermin and antelope rifle with its flat trajectory and wonderful accuracy.

The rifle is perfectly chambered and all fired cases extract free and easy with no trace of hard bolt lift or sticking cases, something not always true of ultra high velocity rifles. Recoil is very light. The rifle jumps, of course, but does not kick in the true sense of the word; anyone can shoot it all day in shirt sleeves with comfort.

The big Bushnell scope worked out perfectly, with the Bushnell mount positioning the scope about right for us old stock crawlers. Some short-armed men might have to cut down on their stock length a bit. We shot it at 4 to 5 power most of the time, and when group shooting would then turn the scope up to 9 power to read the bullet holes. I found I could see the holes clearly in the white at 5 power, and at 9 power they showed up perfectly in the black. This hig scope removes the need for binoculars, as one can turn it to 9 power and see about all he can with most any hand-held binocular. This makes it very handy for the pest and vermin shooter and antelope hunter, as he can determine the size of the head on an antelope or pick small vermin out of the grass or brush with ease with the big scope.

Well, gentlemen, if you want the ultimate in a small bore, high velocity rifle, then the new Winchester .264 should prove ideal, I like it. ENFIELD 1917 issue rifle 30-06 cal, in original cosmoline. Eddystone make only, 5 groove barrel—\$30.00. Case lots of 10 guns \$22.50 each F.O.R. Millyale.

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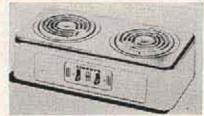


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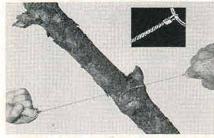
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THE GUN BEHIND HOLLYWOOD HEROES

(Continued from page 18)

their behalf. He is Chairman of the Public Relations Council of the Los Angeles Indian Center, helping thousands of Indians to settle in the big city every year. Ten years ago, Rodd started a Christmas collection of gifts for Indians still living under poverty stricken conditions on reservations. He enlists the help of the Shriners and the Boy Scouts in collecting the gifts, and the Navajo Trucking Company delivers them without charge.

You can't help responding to Rodd's personality, once you get used to hearing an Indian who talks more like Cary Grant than Tonto. He attacks life with a zest that is refreshing amidst the pervading ennui of Hollywood. His hair is still a glistening gunmetal black, although I'm sure he is ten years the senior of your salt-and-pepper headed author. He is not tall, but he is lithe and physically fit. Typical of his race. he has little need of shaving his smooth, youthful-appearing face.

Rodd's accent results from his being raised in the heart of London. He attended Westminster School until he was 14, then accompanied his stage actor father, William Redwing, and his lovely mother, Lillian, to New York City. (It was for Rodd's mother that Cary Mills wrote the familiar song, "The Moon Shines Tonight On Pretty Redwing.")

Rodd attended Harem High School in the "Hell's Kitchen" neighborhood of New York, with such later-to-be-famous classmates as "Pretty Boy" Floyd, Jack "Legs" Diamond, Buddy Minabrook and Franky Yale. In spite of his slender build, Rodd was an excellent athlete, participating in track, basketball, baseball, and football. He went on as a History major at the New York University, where he starred as one of the lightest firststring ends in football history.

During these years, Rodd's father taught him to love and respect firearms in the same manner as the Frontier Indian did. The elder Redwing also taught his son another tenet of Indian philosophy, "Don't kill, except in need." To this day, Rodd has yet to kill an animal, or even a bird.

After gaining his Bachelor's Degree at NYU, Rodd was pondering an offer to teach history and double as football coach at Wheeling, West Virginia High School for \$125.00 a month. Suddenly, he was offered a role in a stage play, "The Bad Man," at \$125.00 a week. The choice was easy. The late Cecil B. De Mille subsequently brought Rodd to Hollywood for the role of Lupe Velez' brother in "The Squaw Man." With one exception, Rodd has appeared in every De Mille picture filmed since.

Rodd still acts in many big budget pictures and numerous TV shows, such as "Wyatt Earp" and "Playhouse 90," but his career as technical firearms director overshadows his acting. For 23 years, Redwing has been called in by Hollywood studios to add excitement to shooting sequences in virtually every important Western filmed in the Movie Capitol, from Howard Hughes' "The Outlaw," through such classics as "Shane," "Duel in the Sun," "High Noon," and "Vera Cruz," to the more recent "Warlock," "Gunfight at the OK Corral," and "Last Train From Gunhill." Soon to be released is his newest, the biggest budget Western ever filmed, "One Eved Jacks," with Marlon Brando and Karl Malden.

Rodd takes over the actual direction of the gunfight scenes in these pictures. He receives a copy of the script about a month before the cameras are ready to roll. He picks out each shooting situation, checks it for authenticity and plausibility, then works in new and startling shooting stunts. In "From Hell to Texas," star Don Murray was to be surprised by a shot fired from ambush, and take cover behind a rock. To dramatize the situation, Rodd had Don leap from his horse, cock a lever action Winchester '92 one-handed while in the air, land is a prone position, and fire the rifle as he hit the ground. "I had to start him out landing on three mattresses, then take them away one at a time, as he perfected the leap," Rodd told me. Don had never handled as much as a B-B gun before he got this role. Rodd made him look like a boy who grew up with a rifle in his hand.

Rodd is often called upon to make a gunshy movie star look good with a gun, in front of the camera, but he also teaches them to shoot with live ammo. "I start them out shooting at a Dixie cup, only a few feet away," Rodd said. "I let them shoot until it gets beyond their accurate range, then start them on a new cup. As their skill increases, they can hit the cups farther and farther away."

Rodd teaches and practices an instinctive, pointing type of aim, if you can call it that, Actually, he claims not to be aware of the gun at all, looking with both eyes at the target, and using no sights. The front sights of his revolvers are all filed down to facilitate his draw, and some of his rifles lack sights entirely. "My method is more like shotgun pointing," says Rodd. When he spotted my raised eyebrow, he smiled, "You never saw sights on a bow, did you? At least, not on an Indian bow. That's strictly instinctive. When I was working with Jerry Lewis and Dean Martin on "Pardners," Jerry couldn't figure out how I outshot him using a rifle without sights. He had a scope on his. After a couple of weeks with me, he threw away his scope and shot better than he ever dreamed of."

Often, Rodd must give an impromtu demonstration of his shooting skill for a movie star, before said star will allow some of the shooting stunts that involve putting live bullets in the air near him. For a scene in "Warlock," Henry Fonda was indulging in some target practice at bottles. Rodd was stationed out of camera range with an M1 Carbine, shooting past Fonda to break the bottles, in unison with the actor's blank shots. In "Tin Star," Rodd fired past Henry Fonda and Anthony Perkins at tree limbs in the center of a wide river, skipping the bullets across the water most realistically. For scenes like these, live ammo must be used, and large caliber stuff, at that. In "From Hell To Texas," Rodd fired live ammo from a .30 caliber M1 into a watering trough behind which Don Murray was hiding. Midway through the trough, Rodd had placed a steel plate to stop the bullets. The holes and spurts of water that resulted were realistic enough for the severest critic. Later in the scene, Don ran from behind the



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COLADONATO BROS. · Copyright Dept. G4D, Haxleton, Pa. trough, and Rodd followed him with a barrage that kicked up dust barely inches from his heels. Those ricochets were the real thing!

Often, Rodd has to be concealed from the camera by bits of scenery, which obscure his target. On such occasions, Rodd will sight upon his target and lock his arms in position while the scenery is moved into place, and then, on cue, neatly dispatch the bottle, bar glass, or what have you, without the movie audience ever being aware of his existence.

Even the story lines of many movies are influenced by Rodd's ideas for shooting stunts. It was his idea for Grace Kelly to shoot one of the badmen in "High Noon." Rodd had the pleasant task of coaching Princess Grace for both "High Noon" and "The Swan," making her into an excellent pistol shot and a creditable fencer. In "Warlock," Rodd set up one shot in which a barber was standing in front of a water wagon as he was gunned down by the villain. Rodd fired two blood pellets at the man's chest, perfectly positioned, so that as he sagged away, two holes appeared in the wagon behind him, with water pouring forth. This was one of the few times that Rodd was able to persuade Hollywood that a 255 grain slug traveling at 900 feet per second will go through a man, not lodge two inches deep in his shoulder.

Rodd originated the now popular trick of yanking the victim of a shooting off his feet with a hidden wire, to simulate the knock-down power of the big bore guns common to the Old West. He first used it in "Shane," when Jack Palance shot down Elisha Cook. He used a wire for yet another effect in "Warlock," when Fonda, dressed in a frock coat, had to outdraw a baddie who was completely unencumbered. Rodd placed a fine wire under Henry's coat in such a way that by pulling it at the strategic moment, Rodd could yank the coat back from the holster, leaving Henry free to draw without interference from the garment.

No mere sixgun jockey, Rodd excels at, and teaches, fencing, knife throwing, whip fighting, and fast and fancy rifle shooting. He also acts as a consultant on military tactics, and teaches military drills of all nations, including the Union and Confederate armies of Civil War days. For "Gunga Din," Rodd taught 3000 extras to crisply execute the English drill and the Queen Anne Salute, a complicated rifle drill.

Rodd also acts as unofficial gunsmith on location trips, carrying a supply of often needed spare parts. "You can't teach a man to shoot if his gun won't work," he explains.

Rodd uses his own design of holster and belt, and is now producing them commercially. They are available in every color, including silver and gold, to fit any make and caliber of revolver. The holster is reinforced by a resilient spring-steel band that encircles the cylinder.

"Motion pictures have come a long way since the days of sixshooters that never ran dry, or heroes who could hip-shoot the bad guy at fifty yards," said Rodd, "but progress has been painfully slow. Many producers still hesitate to add a gun advisor to the budget, and leave the shooting scenes up to the writer. The results of this economy are hackneyed at best, and at their worst, physically impossible."

In his current release, "Heller With a Gun," Rodd does the gun work and also plays the role of what he terms, "an idiot Indian." When I asked if he objected to such roles, he mused, "No-I guess not; but someday I'm going to produce a Western of my own, and for once, I'm going to have the Indians ride up a hill!"

THE MISSING LINK IN RAPID FIRERS

(Continued from page 26)

USMC, compiler of the monumental fourvolume work "The Machine Gun," this weapon is an important relic. States Chinn, "What the gun may be is an improved version of the Barnes. If so, it is one of the outstanding finds in prototype machine guns. The importance is not that it is the first, or second, third, or fourth machine gun made, but that it is the first example of the togglejoint action that is known. This system is credited to Borchardt, Luger, Maxim, Gardner and others. The Barnes gun, patent 15,315, was designed by C. E. Barnes of Lowell, Mass., and used a stiff linen cartridge encased in a heavy steel cylinder with the nipple in the rear. It was later modified to use cartridge chambers, then extensively used in the Coffee Mill (Agar), and the first Gatling. Various features lead me to believe the date of construction is about 1858."

The unknown inventor was a master craftsman. His gun is finely machined, weighs a portable 100 pounds. The simple crankshaft mechanism is in perfect condition after 120 years. Put into production, the Charlestown gun might well have changed the course of history. The experimental model (probably the only one ever built) was stored in a farmhouse cellar and forgotten. There it remained until September 1959, when Charlestown gunsmith Norman LaRock discovered it amid piles of rubbish. The gun is now in the collection of arms-historian Major Hugh Smiley of Henniker, New Hampshire.

For rapid fire, the inventor was first obliged to overcome the handicap of using a separate ball, percussion cap, and charge of powder. He designed a hollow "shell" about one inch thick and four inches long. This device contains the load in the manner of a metallic cartridge, and also functions as an interchangeable breech. Any number of these shells might be loaded in advance of a battle, or the assistant gunner could reload the empty ones.

A gravity-feed ramp on the left contains a supply of the shells. When the gunner turns his crank, the bottom half of a two-part receiver moves forward, and a loading device rolls a shell into it. This device is the grandfather of the automatic parts-feeders which are used on modern assembly lines. A second shell immediately drops into the loading device.

Meanwhile, the sliding half of the receiver moves forward, like a piston on the end of an automobile crankshaft. When the two halves of the receiver are joined, the shell is held securely top and bottom to act as an extension of the barrel. The crankshaft at this moment is dead-level, providing an effective lock against recoil. The hammer strikes.

"The remarkable thing," says gunsmith LaRock, "is that the inventor almost hit upon

a system for full-automatic fire. If the hammer struck just an instant later, the recoil would drive the receiver back again, spinning the crankshaft for another cycle. Put a flywheel on it, and you would have the world's first automatic weapon."

As it stands, the Charlestown gun is fast. A spring-loaded finger retains the empty shell when the sliding receiver moves to the rear again, and the shell simply drops to the ground. The backward motion of the receiver re-cocks the hammer to complete the firing cycle. The whole operation takes no more time than is necessary for a man to swing his hand in a one-foot circle; probably the gun can fire short bursts at the rate of 120 rounds per minute. Mounted on a light wheeled carriage, it would have been a deadly weapon in the muzzle-loading era, which did not end until the Civil War was underway.

Whoever he was, the history of firearms will not be complete until it contains the name of the Yankee genius who developed a portable machine gun, invented the automatic parts-feeder, and almost discovered the principle of automatic fire.

GUN RACK

(Continued from page 13)

often see a Buhl scope in the background. We had no trouble at all in spotting shots at 300 meters, and although the shots we were spotting mostly ranged about .58 or .69 Minie ball holes on our own targets, we could pick out the .30-cal, holes in other targets quite easily. The eyepiece is at a convenient 45° so you can spot in the prone position easily. Even when placed on the range table it is not too difficult to use. once you get accustomed to the fact you are not in a direct sight line with the target when peering through the eyepiece. Extra eyepieces, in 15X, 20X and 40X are available, but the base price of this rig is only \$114.50, quite competitive with all other scopes and, remember, this is 100% made in America, by Buhl Optical Co., 1009 Beech Ave., Pittsburgh 33, Pa.

Naturally in fabricating this glass all modern conveniences are included such as hard coating, pressurized sealed lens system for dust free use, and it is designed to withstand moisture, fogging, dust and the most severe climated conditions.

At Waukegan, where shooting has been in progress during all weathers, the scope has been subjected to repeated chilling and external temperature changes with no loss of vision. Its lens showed up the targets unusually sharp and clear and without distortion at lens edges-truly a first class spotting scope. It comes in a sturdy metal trunk with securing blocks glued inside and padded with rubber. Although built to military specifications for durability, the box evidently was not tested for "Post Office Proof" qualities and when received, some of the spacing blocks had shaken loose. It is suggested that if this occurs, as soon as you receive the scope, re-glue the blocks in place as it will make it easier later to restore the scope and tripod to proper position all folded up for carrying. Both Guns and Buhl president J. S. Stapsy agree, it is "a damned fine scope." Basic specs are: Objective lens, 60mm.; Field: 25 mils (minimum); Magnification; 25 power; eye distance: .3" (minimum); Focus range: infinity to 30 feet; Length: 1634"; Weight:

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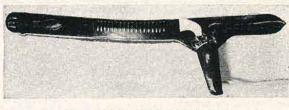
(See also pages 55, 56, 61, 62, 66)

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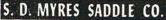
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three pounds. Made mostly of aluminum, the scope has a baked on gray crackle finish. Its "barrel" will fit standard scope tripods, prone type or standing models.

Shooting the Navy Arms Co.'s Percussion Revolvers

While the gunsmiths struggled to handmake percussion revolvers at the rate of one every now and then, the sport of black powder burning has been on a speedy increase. So, putting capital and ingenuity to work, Service Armament Co. of Bogota, N.J., formed a new company to manufacture and distribute percussion revolvers. The most popular form seemed to be the Colt Model 1851 and this was the basic pattern decided upon, Today, not only the Navy Model 1851, but also the Confederate variation with brass frame and round barrel, is in production and ready to go at \$89.95 each type.

The Yank on the range proved successful in spite of minor handicaps. Nipples were a bit short and the old Winchester caps, Staynless, recently discontinued (on the eve of a great popularity boom in cap-busting) were untrimmed and too long, causing cushioned hammer blows and occasional misfires. In addition, I had not cleared the chambers with a hot enough cap in advance and traces of oil lingered to cause misfires. But after filtering powder into a couple of nipples and finally getting off three shots, I had it "called" at 15 yards-three neat shots smack in the 10 about a third up from the bottom ten-ring edge! I fired two more and could plainly see them strike as two good, close nines.

Although I had greased the bullets by diping in Micro lubricant, the powder did foul up and subsequent shots went much wider. These earliest Navys have rather shallow rifling, fast but not deep, and the bore will cake and cause fliers. This is hardly a defect in the gun; the fact that black powder revolvers have to be frequently swabbed out to shoot at their best was not really understood until after the Civil War, though precision rifle shooters had swabbed even between each shot, for years earlier.

Finish on these guns is blue and casehardened, with natural brass. The Yank frames are beautifully made, precision cast of steel and colored in mottled shades of brown and blue and gold-very pretty, with their bold shades and tints. Cylinders are plain, no cylinder scene, and in minor dimensions different from Colt cylinders to make life tough for fakers. There are no "safety" pins that more often than not are mashed flat anyway, and the hammer is consequently not weakened in the hammer nose with the hole present in the original Colt type. Hammer, loading lever and plunger, all

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in finishing. The moulds with these guns are

of the Colt type, but Navy Arms Co.'s re-

volvers will be featured in the new edition

of the Ideal Handbook with more details on

loading for accuracy. Lyman's line-up of

moulds also carries round-ball types close to

the right size for these guns. It is always

best if you mike sample bullets forced

through the bore of your own gun, and then

contact Frank Jury at Lyman for his recom-

mendation. New powder flasks for these guns,

copies of the Colt stand of arms and cannon

design by Dixon, British flask makers, are on

hand at \$20 each. They are new, gun-metal

finish, various choices of chargers. A deluxe

flask in sterling silver, hallmarked, at about

\$90 can also be had from Navy Arms, while

wooden cases similar to the old Colt arrange-

Model Army .44, solid frame, and also the

Remington .58 caliber brass-trimmed Zouave

rifle, one of the most colorful and hard-hit-

ting shoulder arms of the Civil War, Prices

will be in line with present Navy prices, and

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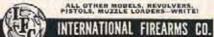
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ELMER KEITH SAYS

(Continued from page 8)

or grouse up to ten yards at least,

We believe this Crosman 600 model is not a quick-draw outfit but a fine target arm. Its ten shot magazine can be emptied with good aim in fast time, just like any fine .22 auto loading target pistol. The good sights and perfect trigger pull and perfect grip will enable any good pistol shot to do very fine work at close indoor ranges, and for a very low cost in ammunition. It is excellent training for all timed and rapid fire matches, and the man who cannot get to a range but once a week and who is doing match shooting will find this low cost Crosman outfit will keep him in perfect training. This is one Pell gun we believe will enjoy very large sales.

Receiver Sights for Nylon 66

Williams Gunsight Co. has developed two new receiver sights for the Remington Nylon 66. One is their regular Foolproof receiver sight that I have so long recommended for all big game rifles. This one sells at \$9,00. The other is their 5D-66, without the micrometer adjustments, selling for just \$5. These sights fit low, contour the receiver, and are anchored by two 6-48 screws. They make excellent sight equipment for this fine little rifle-the rifle Tom Frye used in establishing his long-run record.

New Remington Free Rifles

We used to win Olympic and Pan American and International Free Rifle matches, but for some years now the Russians have beaten us in most events. No team or individual has any chance at all in the popular 50 meter small bore Iree rifle and the 300 meter center fire events without the very fine super-accurate free rifles and their specialized appurtenances. For years, Remington Arms Co. has worked with the Army Advanced Marksmanship Unit and other leading service groups to provide them with the finest possible rifles and super-accurate match ammunition. Remington is now building more international Free rifles than any other firm in this country. In response to a great many inquiries, Remington will soon make this equipment available to civilians. The Company will furnish the basic rifles only, leaving stock finish and fit to be completed by the individual to his own specifications,

Having played the free rifle game myself back in 1925, I believe these new Remington rifles will be the best ever offered in U.S. make. Because international rifles must be ultra precision equipment, the new Remington models will be custom made. Only a limited number will be available.

International Type Rim Fire Rifle: Single shot, 40X type bolt action, .22 caliber. Furnished with rubber butt plate and hook type butt plate. Stock and fore-end rough turned. Palm rests (Dunlop or equivalent). Without sights but with scope blocks, to accommodate either Redfield International or Olympic sights. Two versions, one with a 1/2 oz. trigger, the other with a 2 oz. trigger. Heavy barrels furnished, but standard barrels available on option, Stocks with different cheek patterns for offset sights also available. Retail price of the 2 oz. trigger model will be \$317. The 1/2 oz. trigger model will be priced at \$478.



International Type Center Fire Riflet Specifications identical to rim fire versions except that center fires will be in 7.62 or .30-06 calibers, Any other center fire caliber for which Remington now chambers a gun may be ordered on special request. Prices identical with the rim fire versions.

40X Rangemaster Center Fire Rifle: Remington will also furnish a new center fire version of the famous 40X "Rangemaster" 22 target rifle, to be offered in .222 Remington, 244 Remington, 300 H & H Magnum, and 30-06 calibers. A bolt action single shot, it will be identical in every other respect with the rim fire 40X. Furnished without sights, with scope block, will accommodate either

Redfield International or Olympic sights. List price, \$165. Furnished on special order only. International type triggers extra.

All three of these new Remington models are being sold through a selected list of specialty distributors under a program developed by the company to test the market for this type of equipment. Deliveries of the new guns will start about September 1, 1960, and orders will be accepted immediately for delivery starting then. Described by the manufacturer as the "most accurate target rifles ever built in this country," the three new guns will enable American shooters to enter international or domestic events with the finest equipment possible.

INDEX OF ADVERTISERS

INDEX OF A	DAFKLIZEKZ
Advertiser Page	Advertiser Page
	PONY EXPRESS SPORT SHOP55
GUNS and AMMUNITION	JULES REIVER63
ROBERT ABELS	TANDY LEATHER
BARNES CUSTOM BULLETS	WHITCO63
BROWNING ARMS COMPANY	BALL ASSES BARRES
COLT'S PATENT FIRE ARMS MFG. CO Cover IV	SCOPES, SIGHTS, MOUNTS
CROSMAN ARMS CO., INC	BAUSCH & LOMB OFFICAL CO
DEUTSCHLAND ORDNANCE CO	MAYNARD P. BUEHLER
EARLY & MODERN FIREARMS CO., INC., Cover III	CRITERION COMPANY62
FEDERAL CARTRIDGE CORP55	LYMAN GUN SIGHT CORP
NORM FLAYDERMAN ANTIQUE ARMS 63	PARKER DISTRIBUTORS43
HEINRICH F. GRIEDER56	REDFIELD GUNSIGHT COMPANY43
ANTHONY GUYMON, INC	SANTA ANA GUNROOM43
GIL HEBARD GUNS65	THE PROPERTY OF THE PROPERTY O
HOLLYWOOD GUN SHOP52	STOCKS and GRIPS
HUNTER'S LODGE	C. D. CAHOON64
	REINHART FAJEN
THE JEFFERSON CORPORATION	FITZ GRIPS
LEM GUN SPECIALTIES	SPORTS, INC
NOBLE MANUFACTURING COMPANY49	91-0615, 114-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
NORMA PRECISION	TOOLS and ACCESSORIES
NUMRICH ARMS COMPANY53	TOOLS and ACCESSORIES
PACHMAYR GUN WORKS	FRANCIS BANNERMAN SONS, INC44
POTOMAC ARMS	FASTIME COMPANY
ROYAL ARMS, INC	FLAIG'S LODGE
SAVAGE ARMS CORP11	KUHARSKY BROTHERS, INC65
SEAPORT TRADERS, INC	LACHMILLER ENGINEERING CO 8
SERVICE ARMAMENT CORP Cover II, 45	FRANK MITTERMEIER48
SHARPE & HART ASSOCIATES, INC10	NEW METHOD MFG. COMPANY48
SIERRA BULLETS	PENDLETON GUN SHOP11
FRED THACKER44	RADIATOR SPECIALTY COMPANY48
VALLEY GUN SHOP48, 56	SCIENTIFIC LUBRICANTS COMPANY48
WESTERN GUN & SUPPLY CO12	SOUTHWEST CUTLERY & MFG. COMPANY
	STITH MOUNTS10
THE PROPERTY OF THE PROPERTY OF	3/1/14 MOUNTS10
HANDLOADING EQUIPMENT	MISSELLANISOUS
AURAND'S	MISCELLANEOUS
C.H DIE COMPANY14	RUSSELL BAEHR38
CARBIDE DIE & MFG. CO54	DIRCKS-BEATH, INC
CASCADE CARTRIDGE 7	JACK FIRST48
LAKEVILLE ARMS, INC46	GOVERNMENT SURPLUS SALES
MAYVILLE ENGINEERING COMPANY51	WILLIAM HARDY52
R.C.B.S	IMPORT ASSOCIATES & CO
SAN ANGELO DIE CASTING & MFG. CO46	HARRY S. JONES44
ULTRA PRODUCTS51	NATIONAL RIFLE ASSOCIATION
	PENNSYLVANIA GUNSMITH SCHOOL11
HOLSTERS, CASES, CABINETS	PUBLIC SPORT SHOPS
COLADONATO BROTHERS	RAY RILING
	SHOTGUN NEWS
EL PASO SADDLERY	SPORT MART, INC
DALE MYRES	VARMINT HUNTERS ASSOCIATION
S. D. MYRES SADDLE COMPANY63	WEATHERBY SPORTING GOODS CO 9
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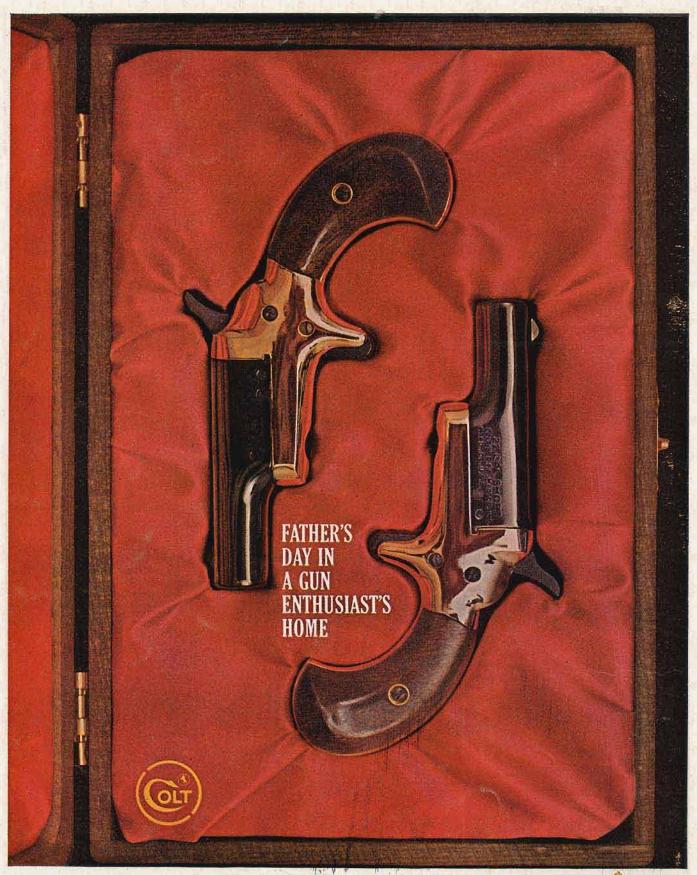
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