

FINEST IN THE FIREARMS FIELD

# Guns

HUNTING • SHOOTING • ADVENTURE

JANUARY 1960 50c



THE BIG LITTLE  
.257 CONDOR



60th "GRAND"  
CROWNS NEW TRAP  
GREATS

THE HOT NEW .22 JGR

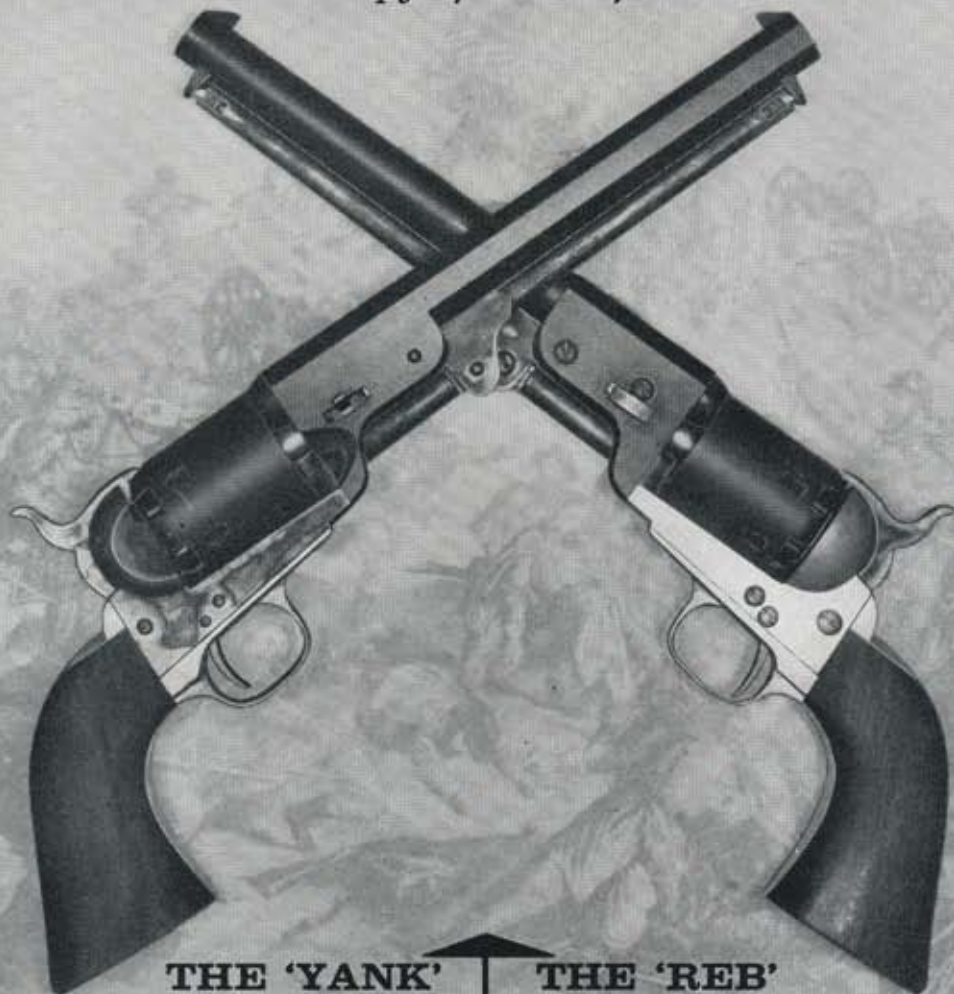
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HUNTERS

THREE GUNS FOR BIG GAME



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# GUNS in the NEWS

[Special]—

◆ Memphis, Tenn. The term blizzard, which now means a severe weather disturbance, once meant a volley of shooting. Davy Crockett, the famed frontiersman, penned this in his diary: "I saw two more birds, very large fellows. I took a blizzard at one of them and up he tumbled."

★ ★ ★

◆ In a Marksman vs. Missile contest conducted in the Pentagon Concourse, the sharpshooters won. An exhibit prepared by the USAF Marksmanship Center at Lackland AFB, Texas, attracted far greater interest than an adjacent missile exhibit. One reason may have been that the marksmanship display offered the personal touch: four top-flight marksmen (Lt. Richard J. Gorey, M/Sgt. John L. Johnson, T/Sgt. John L. Keyser, and A/Lc Paul H. Stapper) were present and eager to answer all kinds of questions.

★ ★ ★

◆ Salt Lake City, Nev. A young man tried to buy ammunition to go rabbit hunting; was refused. Check of city ordinances uncovered a relic law prohibiting the sale of guns or ammunition within city limits to anyone without a permit. The City Commission asked for a study of the situation and suggestions for revision of the ordinance. Police Chief W. C. Shousen branded the present law as "completely unworkable."

★ ★ ★

◆ Corpus Christi, Tex. A policeman here showed that a pistol can come in handy in more ways than one. Missing every time he fired at a fugitive, the officer in disgust threw the gun at him—and knocked him out cold.

★ ★ ★

◆ Elk City, Okla. Raymond McVeigh probably has the fattest billfold around and about. Proud of his marksmanship and hunting successes, McVeigh keeps in his wallet his hunting licenses for the last 31 years.

★ ★ ★

◆ Butte, Mont. A faded newspaper clipping from this area tells a dramatic story about the late Clark Griffith, the owner of the Washington Senators baseball team. It seems that on a November day in 1912 Griffith, doing a little hunting, was charged by a wounded buck. "Griffith had brought the buck down with a shot," the story relates, "and as he attempted to approach it, the wounded and infuriated beast regained its feet and started madly toward him." Having no time for anything else, Griffith, a cracker-jack pitcher in his day, "stooped to the ground and picked up a stone about the size of a baseball. He threw one of his old-time fast ones, hit his quarry right between the eyes, and the buck dropped in its tracks."



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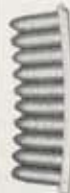
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## KNOW YOUR LAWMAKERS

### Senator Barry Goldwater Arizona

THE SECOND AMENDMENT, which guarantees the right of a free people to the possession of arms, is as important today as ever. We who enjoy the pleasure and the challenge of hunting and marksmanship appreciate also that there must be legislation which, effectively administered, will continue to make possible our enjoyment of this privilege while providing protection from those who would abuse it.

### Congressman John J. Flynt, Jr. Comm.: Interstate & Foreign Commerce 4th Dist., Georgia

IT IS OF VITAL importance that the right of the people to keep and bear arms shall not be infringed. For Federal, State or local authorities to impose undue restrictions and regulations on legitimate ownership and use of legal firearms constitutes a threat and menace to a free society. Every effort should be made to penalize *unlawful* use of guns; but mass punishment or restrictions imposed upon law abiding citizens and criminals alike would be used to the benefit of criminals and would unduly restrict legitimate ownership and use of firearms. Incidentally, my two sons and I enjoy GUNS Magazine very much and look forward to receiving every issue.



John Flynt holding N.R.A. replica new Kentucky long rifle.

### Congressman Charles E. Bennett Armed Services Committee 2nd Dist., Florida

I DO NOT feel qualified to comment on the Second Amendment of the Constitution. I am sure that other Members of Congress will respond in a way which will serve your purpose.

### Senator George D. Aiken Comm.: Agriculture & Forestry Vermont

I WISH IT WERE possible for me to submit a statement for your magazine. As a matter of fact, I have had several similar requests this year and have had to turn them all down because I have a hard time keeping up with even my Legislative work.

### Congressman A. D. Baumhart, Jr. Comm.: Merchant Marine & Fisheries 13th Dist., Ohio

I DEEPLY REGRET that the press of duties, both in Washington and back in my Congressional District, makes it impossible for me to devote the necessary time to a consideration of and comment on the Second Amendment to the Constitution.

### Congressman Graham A. Barden Comm.: Education and Labor 3rd Dist., North Carolina

I BELIEVE that the wording of the Second Amendment to the Constitution is as sound today as when it was written, but in order to give an intelligent answer to your letter, it would require considerable thought and the press of things at this time makes it impossible to devote the time required to this matter.

### Representative Joseph W. Barr, Eleventh District, Indiana

I AM A NEW Congressman, and when we moved into a house in the country in Maryland, my first job was to purchase a gun rack to hold my shotguns and rifles. I received my first rifle at 10 and my first shotgun at 12. I have lived with guns all my life, but your question on the Second Amendment leaves me just a bit puzzled. I would certainly rise up in righteous wrath if anyone were to tell me that I could not keep my shotguns and rifles but, on the other hand, I would never object to any regulation on carrying a pistol in built-up areas. Unfortunately, as we all know, there are always a lot of foolish people monkeying around with guns that make it very difficult for the rest of us. I have started my nine-year old boy with a single shot bolt action rifle, and he thoroughly understands that he will be punished if he is careless with that gun. He has been punished once, and that did it. I only hope that I can transmit to my son the joy I have had with guns and also the sense of respect for guns my father and grandfather beat into me.



# Guns

FINEST IN THE FIREARMS FIELD

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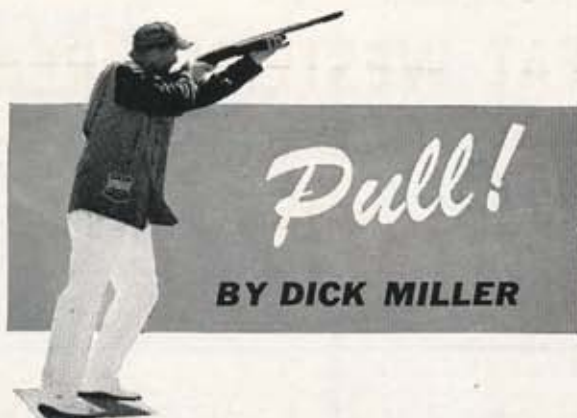
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## THE COVER

Clear eyes of Arnold Riegger, one of the top men in Trap, gaze over ventilated rib of his target M12 as he shot a new world's record in last Grand American. Shooter, who grew up on a farm, added to his Grand total to set long run of 1434 registered clays, topping old 1176 record by Joe Hiestand.





**K**ALAMAZOO is a progressive city. People work together in this thriving city, and they play together. Kalamazoo is one of the nation's leaders in the small shopping system, now intriguing cities all over the United States, and a plan which calls for community cooperation. Kalamazoo has industry, housing, shopping, education and recreation. As Deen Malotte, promotion manager of the Kalamazoo Gazette, puts it, "We take good care of our youngsters, and of our adults, too!"

Deen's reference to youngsters came about when speaking of the recent Gazette shotgun clinic for boys and girls, age 12 to 18, held at the Stevens Gun Club, on U.S. 12, East of Kalamazoo, on a Saturday afternoon. One issue of the Gazette contained these wise words, which every experienced shooter knows ought to be emblazoned across every newspaper in the land:

#### "WHAT EVERY PARENT SHOULD KNOW"

"Come the day when the settlers on your block have routed the last redskin, when your backyard cowboy and his trusty cap pistol have freed the neighborhood of the last rustler, your boy or girl may want a real gun, one that shoots. That desire is normal and healthy, because shooting is part of the American tradition.

"Satisfying it under properly safe and sane conditions need present no great problem to you as a parent, and will bring both you and your youngster rich benefits in shared fun and skills. Most youth authorities agree on the value of proper shooting training, under competent supervision, to good physical and mental growth.

"For such reasons, the Gazette has made arrangements to sponsor this clinic in the interests of safety education and shooting fun. May it help relieve your natural concern and introduce your boy or girl to safe shooting fun and a lifetime of enjoyable sport."

The Gazette Youth Shotgun Clinic began with a classroom-type session in the use and

care of firearms. Since safety is an end product of education, the Gazette clinic wisely gave youngsters, and parents, a beginning dose of education. This session was followed by a skeet shooting demonstration on host Mark Stevens' skeet lay-out. A local Navy unit then entertained the youngsters with an eyebrow-raising demonstration of military firearms, on the club rifle range.

As a prelude to the youngsters' participation in the program by shooting five trap targets each, a squad of Kalamazoo gunners who had fared well in state and national tournaments showed the way with a round of trap.

After being told how, and shown how, to break flying clay targets, the entire group of boys and girls (limited to 100, in the interests of efficiency for a first-time program) stepped up to the 16-yard line and fired five shots each. To help insure a pleasant introduction to the great game of trap, the traps were locked in straightaway position.

Circulating among the parents and spectators while the boys and girls were getting in their licks at the flying clays was a revealing experience. One father, whose small-for-his-age boy had just broken all five of the 16-yard birds, commented that so far as he knew, the lad had never fired a gun of any kind. A mother, whose two daughters were on the firing line, reported that when her girls wanted to enter the clinic, she was horrified. Now that the girls had won out, she was one of the most enthusiastic boosters for the program.

Another tiny girl, just over the minimum age of 12, and a tiny-mite for twelve, drew cheers from her whole field when she shattered her third target, and had to hand her gun to the instructor while she jumped up and down in glee. On every hand were heard expressions of approval for the program, the Gazette, and host Mark Stevens.

When the youngsters had finished firing, two squads of adults, who had never before shot at trap targets, took the field, spurred on by encouragement from their small

fry, who were now veteran shooters. In the interest of continued domestic harmony in Kalamazoo, the comparative scores of the youngsters and their parents shall not be revealed. It can only be said that the 12-18 age group were offering their services as instructors in trapshooting.

One male parent who broke all five targets laughingly queried gun club operator Mark Stevens why he (Stevens) had not let him in on the fun to be had from this game. Mark invited him to take part in industrial league shoots which bring twenty teams or more to the traps of his club. In addition, several Kalamazoo firms maintain their own shooting installations.

Presentation of door prizes, a dozen autographed baseballs from the Detroit Tigers, completed a great day in Kalamazoo. One hundred boys and girls, and many of their parents, had enjoyed and shared a memorable day.

Yes, as the Gazette's Deen Malotte says, echoed by Jack Moss, the newspaper's popular outdoor editor, "Kalamazoo takes good care of its youngsters, and its adults." Guns readers, and fellow trap and skeet shooters, does the thought occur to you about now that there are lots of gun clubs in the United States, a lot of progressive newspapers or other sponsoring organizations, and that there are millions of parents and youngsters who would love trap and skeet if they were introduced to the games via a clinic such as the one just described? It should. This is the sort of shooting promotion that works wonders not only in swelling the ranks of shooting sports participants but in insulating the public against the anti-gun propaganda that seeps from time to time into our press—against the fear of guns that is born of ignorance.

All who know the shooting sports are for them. Let's see to it that more people know them.



Photos by Kalamazoo GAZETTE

**GUNS** columnist, shooting promotor Dick Miller (left, above) assisted at Kalamazoo "clinic" for 100 kids.





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## Elmer Keith says...

### Anti-Gun Legislation

I am entitled to be called an American. George Washington and his staff had dinner with an ancestor of mine, one Bill Keith, before fording the Delaware. My grandmother, Druzilla Ann Cummings before her marriage, was a direct descendant of Bill Clark of the Lewis & Clark Expedition. My mother, a Merrifield before her marriage, (a cousin of W. A. Merrifield, Theodore Roosevelt's ranch forman for many years), was a descendant of one Benjamin Merrill, who started the first revolution against the British down in the Carolinas. His small army was crushed by the regular British troops sent against him, and he was captured, tried, and hung. (Nathan Hale was made a martyr for a lot less four years later.) As an American, I have a right to be heard in any matter of American "public opinion;" and as a man who has worked with peace officers and as a peace officer all my life, believe I am qualified to express an opinion on laws and law enforcement.

Our great country is now infested with a very small minority of people (Communist paid people, in my opinion) who would like to see us disarmed and who have been and will continue to exert all the pressure possible toward that end. They have enlisted the help of a fine group of nit-wits and sob-sisters, who, while well meaning, have no idea of the consequences of the anti-gun measures they put before our state and national legislators.

The most law abiding of all communities are those where every man is armed and has instant access to his guns. Switzerland, as a nation, is a monument to peace, went through two great world wars as a neutral, at least partly because she was so well armed and so well trained in the use of weapons that nobody wanted to tackle her. In both wars, Germany would have liked to annex Switzerland but knew the cost would be out of proportion to the gain.

I do not believe in any kind of police state or in police control of firearms. Wherever such laws have been adopted, they have also been abused. A friend of mine drove to California and was involved in a minor traffic accident. The police investigated and found a loaded .38 Special Webley under the front seat of his car. He is and has long been an N.R.A. Member, yet both car and sixgun were appropriated by the police and he came home on a bus.

Only a week ago, another man phoned me from some town in Oregon. He also had been involved in some traffic accident, and the police found his .357 Magnum S & W locked in his suitcase in the car. They

appropriated the gun and also fined him \$175 for "concealed weapons." He asked me what to do. I told him to phone The National Rifle Association and get them on the ball. I don't know yet how he came out, but it's getting pretty bad when an honest citizen can't have a weapon for his own defense in his home or car.

Our constitution plainly guarantees the right to own and bear arms, despite the interpretations of some courts. The National Peace Officers Association of America went on record in the "Law Enforcement Digest," (and in GUNS) to the effect that they did not favor restricting the ownership of hand guns by private citizens, or the curtailment of such ownership by registration. Registration of firearms is the first step toward a Police State and also to the ultimate confiscation of all personal weapons.

Crime is mounting in this country, and I blame it largely on the crack-pot laws that have been instigated in many states prohibiting the carrying of a personal weapon by John Q. Citizen. In this little community in which I live, we have not had an armed robbery in over 20 years. Maybe that is because, if you shook down every citizen on the streets of Salmon, Idaho, you would come up with as fine a collection of handguns as is to be found anywhere! We in the police department like it that way, and habitual criminals usually give us a wide berth. If anything does start, we have good citizen help.

Dr. George Gallup would have the press believe that the consensus of opinion in America is for stricter control of all firearms, and particularly sixguns and pistols. As usual for Dr. Gallup, he could not be farther from the truth. However, it is high time we got up off our seats and let our legislators know what we want.

Right now, a national law is badly needed specifically permitting any law abiding American citizen to carry a handgun in his car for personal protection when he is traveling in or through any state or possession of this country. Having been in law enforcement to some extent the greater part of my life, I know how well the laws protect the criminal; we can send him up for robbery or murder or other crimes of violence, and the Parole Boards can be depended on to turn him loose in six months to three years, regardless of the enormity or extent of his crimes. It's high time the law-abiding citizen had the support of the police and the courts, and was allowed to carry arms for his personal protection. In imposing penalties, emphasis should be placed on the crime, not on the weapon used.



History plainly shows that an armed citizenry is the best possible preventative of crime, whether by an individual, or by an aggressor nation. National emergencies now occur very quickly, and no nation has time to train soldiers after the conflict starts. The only safe preventative is to have all able bodied men and women trained in the use of firearms. This can only be accomplished during the peace-time years. Now is the time for all good citizens to write their Senators and Representatives, both National and State, insisting that they put an end once and for all to these discriminatory anti-gun laws. Very few have ever been introduced that did not defeat the very purpose for which they were intended. Let's be Americans, not push-overs for every criminal, individual or nation, that comes along.

### Left-Hand Weatherby Mark Vs

For years, custom gun smiths have changed bolt action rifles from standard right-hand to south paw persuasion. Many of these have been very fine, perfect-functioning jobs, but some have cropped up with soft cams and other troubles incident to the rewelding and remodelling jobs performed. This possibility of trouble, and the cost of the custom jobs, handicapped left-handed shooters. No wonder they are so delighted now over the arrival of two true factory-made left-hand actions: the new Weatherby Mark V, and the Savage Model 110.

The new lefty by Weatherby is his standard and excellent action, in many ways the most advanced bolt action made today, with everything reversed for the south paw. The safety as well as the bolt are left-handed, making it a true left-hand action. Weatherby makes this fine rifle in all Weatherby and standard calibers, and prices run upward from \$280.

After having tested two of these actions, one in .300 Weatherby and one in .300 H & H, I have a very high regard for them. They work as slick as a National Match Springfield, and are far better finished in every respect. Some statisticians claim that 11 per cent of our shooters are south paws. I cannot vouch for this, but I remember the 1940 National Match .30 caliber team I served on had two lefties, and they were two of the best riflemen we had in rapid fire work. They were very clever in slipping that left hand up and over the action for reloading in rapid fire; but I still feel they would have been even finer rapid fire shots with a proper left-hand action that was natural for them and with bolt properly placed.

The new Weatherby Mark V rifle will also be stocked left-handed, with left-hand cheek piece. It will be made in every caliber from .257 up to the big .460 Weatherby elephant cartridge.

### New Norma Cartridge

Norma-Precision of South Lansing, N.Y., announce a new cartridge for use as an all-around big game cartridge, including the largest American game. This is the new Norma .358 Magnum belted-case round. Velocity with 250 grain bullet is 3790 feet, with an energy of 4322 pounds. It is loaded to below 55,000 pounds chamber pressure and should make an excellent cartridge.

(Continued on page 63)



## RARE CIRCASSIAN WALNUT

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(WHITE) ✓ CHECK THESE OUTSTANDING FEATURES:

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  6. Barrels have fine ground finish.
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F.N. BARRELED ACTION SPECIAL: New F.N. Imported lightweight barreled actions, blued, with ramp. Caliber .220 Swift, .244 Remington, .250-3000, .257 Roberts and 7mm. Also .270, Price.....\$60.00

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NOW AVAILABLE: The new light-weight SAKO L-57 Action, barreled to the Douglas chrome moly barrel in calibers, .22-250, .220 Swift, .243 Win., .244 Rem., .257 Roberts, .250 Sav., .300 Sav., and .308 Win. \$84.00 complete light-weight or sporter-weight. Premium grade barrel \$3.00 additional.



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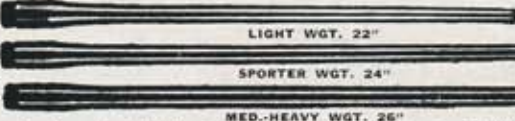
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ACE BARRELS—F.O.B. MILLVALE, PA.  
Ace "Button-Rifled" Barrels, Each.....\$24.00  
If your action is sent to us, we charge \$5.00 to fit, headspace and test-fire, including handling.  
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Barrels are ready to be turned into your receiver. They need only have headspace checked. DEALER inquiries invited and GUNSMITHS be sure to ask for our special descriptive literature on this time and money saving tremendous value item. RETURN PRIVILEGE IF NOT COMPLETELY SATISFIED.

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## CROSSFIRE

### Fast Draw vs. "Mavericks"

Thanks for a remarkably sane and lucid answer to Mr. Shirley's anti-fast-draw letter. It couldn't have been more to the point.

This new and fast-growing gun sport is policing itself. Practically 95% of the new clubs forming are strictly shooting blanks and wax. The Colt factory is sponsoring clubs through the dealers—and again, only blanks and wax are used. The comparatively few live ammo clubs use bullet deflectors on their holsters, steel plates between shooters, and other strict safety precautions.

The occasional "maverick" who shoots himself in the leg will always be with us. The same man will cut off a toe while chopping wood, will electrocute himself fooling with electrical wiring, will drive his car into a tree! But in this new, huge shooting fraternity, the great majority, at least 95%, are careful shooters and sportsmen who have found a gun game they can enjoy minus the formality of target competition.

And a very important point, as you mentioned in your answer to Mr. Shirley, is that we have a swiftly growing number of voters against anti-gun legislation! I would like to see each and every fast-draw enthusiast signed up with the N.R.A. to strengthen our line of defense against bad gun laws.

Gary Sherman  
Victorville, Calif.

### Some Like Satire

I got a terrific charge out of your bit of satire "This Very Day A Rock May Kill You."

I too was shocked by the article in "McCall's." So shocked I sat down and wrote the Editor a letter. Now I should like the opportunity to suggest to about 40,000 of your readers that they do the same. Perhaps they too will receive a letter like the one I got:

"Dear Mr. de Laubenfels:

"Though we never have any legal obligation to cancel a subscription, on the rare occasions that we get a request for cancellation we comply with it immediately; but I am going to make an exception in your case, because of the rudeness of your letter. I will not have your subscription cancelled."

Needless to say my letter was *not* rude or abusive, nor do I recommend that anyone write such a letter. Incidentally, if McCall's refuses to cancel your subscription, all you have to do is write "refused" across it and hand it back to the postman. McCall's will then be obliged to pay return postage.

Should they lose a substantial part of their subscribers, perhaps they will be ready soon to publish an article entitled: "This Very Day A Gun May Save Our Form Of Government."

P. M. deLaubenfels  
Corvallis, Oregon

### ...and Some Don't

The sheer childishness of such "pro-gun" articles as "This Very Day A Rock May Kill You" is equalled only by your lack of judgment in printing them.

While it is obviously impossible to "abolish all rocks" and other natural weapons, and patently impractical to "abolish automobiles," the experience of numerous other countries indicates that it is all too possible to ban sporting firearms. Comparisons of guns to rocks and cars are therefore not only stupid but also highly misleading to those concerned with the problem of restrictive legislation.

Incidentally, the implication in the article that lawmakers who wish to abolish civilian firearms are all corrupt nepotists can hardly be of help in the attempt to change their position on this issue.

William Burden Jr.  
Washington 7, D. C.

To date, of the many letters received, Mr. Burden is the lone objector. Responses included requests for permission to reprint in five newspapers and for reading on two TV programs.—Editor.

### "Give Me Your Guns!"

Anybody can see that the Sullivan Law hasn't done New York a damned bit of good. Any sane person knows that sporting guns aren't criminal weapons. So why register them? (Criminals wouldn't register their arms even if there were a law requiring it.) I'll tell you why: so some communist goon can come pounding on your door some day and demand that you give up the one means of protecting liberty the common man has. I guess the communists don't like to picture themselves enslaving a nation full of determined riflemen! It's so much easier the good old Czechoslovakia way, where they have all the guns, confiscated from the people "to avoid crime waves."

Boys, it's time to start some sound action designed to stop once and for all these nonsensical and dangerous anti-gun laws. Work on your representatives. Show them how fallacious and dangerous these laws are. After all, he wants your vote!

Richard Ferguson  
State College, Penna.

### Salute to Col. Busbey

Recently I read the two articles on "First-Reader for Shotgunners" in the May and June numbers of GUNS written by Colonel George Busbey. They were very instructive as well as being interestingly written. For once some one has come forth with an honest, practical, sensible, and easily understood method of shotgun shooting. After reading



the article, I feel that I can go to a sporting goods store, buy a gun without having it custom made to fit, buy a box of shells without consulting Dunn and Bradstreet or some other agency to find out what size shot to use, and head for the field with the expectation of coming back with some birds for the table. At any rate, I am going to try it.

John C. Smith  
Burlingame, California

### It Happened In Haiti

I am sending you a clipping about Haiti to show what is being done in some countries: "Port Au Prince, Haiti, April 13.—(UPI)—"The Army has ordered all civilian residents to turn in their firearms—an action traditionally taken in times of tension." It can be done, even here in the U.S. Two years ago, the Treasury Department made a ruling that all firearms dealers must keep a record of every gun sale. These records can be taken up by Treasury agents in a few hours. An emergency can be declared and these guns can be confiscated.

Some people say we have the Constitution, but—the government took all the gold in the Thirties, and the spare tires from our automobiles during W W II. Why not our guns?

Wayne L. Maxwell  
Ft. Collins, Colorado

### Buckshot and Books

Add to the discussion on shotguns: the Marine Corps used them in Korea, and buckshot is very deadly in ambushes and night attacks. Reason: Wider impact area.

I suggest three books to people who are in earnest about riflemen in civil defense: "Guerrilla Warfare," by Mao Tze Tung; "Communist Guerrilla Warfare," by Dixon Heilbrunn; "The Seven Pillars of Wisdom," by Colonel Lawrence. In these books you will find the aim of guerrilla warfare, and how the use of it can help win a war.

Cp. Ernest A. Norton  
Jacksonville, N. C.

### Shooters' Problem

We here in Southern California have a real problem: where to shoot our rifles, pistols, shotguns. Local land owners are against all shooting and sprinkle "No Shooting" signs to prove their point. Almost all cities and counties frown on any gunfire. No areas have been set aside as hunting reserves.

Sure, you can plink at targets at the local police range, or at skeet and trap club ranges, if you like target shooting; but shooting out in the country with nothing around for miles except hills and wild game is taboo.

Meanwhile, thousands of firearms lie rust-

ing in thousands of Southern California closets. Of course, you can always pack up your gun and drive several hundred miles out to the desert. Shooting in local foothills is much too dangerous. You might hit a "No Shooting" sign—or something.

Luther W. H. Einung  
Chula Vista, California

### Amen!

As a new subscriber I would like to say that I was very happy to see the many interesting and informative articles in your fine magazine. I was especially pleased to see the "Know Your Lawmakers" section. It gives the gun owner an advance opportunity to see just where his Congressmen stand in regard to the Second Amendment and all future firearms regulations.

I also read with interest a letter in your "Crossfire" section from C.H.P. of Reading, Pennsylvania regarding the infamous Senate Bill 412. This would have made Pennsylvania a police state so far as the gun-owner was concerned. I am happy to know that this bill was turned down in the Committee of Law and Order.

Politicians must learn that criminals do not register their guns nor obtain permits to carry them. Only the law-abiding gun owner suffers from such legislation.

God gave the authors of our Constitution the wisdom to see that the rights of the people were carefully stated—may He give us the wisdom never to relinquish them.

Robert Thomas  
Logansport, Indiana

### Constitutional Rights

After reading the "Crossfire" column of your February 1959 issue, I would like to take this opportunity to congratulate the State of New Mexico for its gun law sanity. I have recently moved to Tennessee from Texas. Both states have quite rigid handgun laws, which will become prohibitively absurd if proposed bills pass their forthcoming legislatures. This line of thinking seems to be spreading over this nation of ours like the plague.

Pressure groups of self-righteous people are taking our Constitutional right to bear arms away from us, and we are doing very little to stop them. Persons owning handguns, as do I, are the first to suffer from any anti-gun legislation. The criminal is still able to obtain a handgun for his purposes regardless of the law. The manufacturer and dealer in firearms also suffers as a result of this legislative stupidity.

I would also like to congratulate your fine magazine for reprinting the article by Mr. Karl Hess. If more sportsmen were made

aware of this increasing usurpation of our Constitutional rights, something might be done in an organized manner to alleviate this situation in the various states.

Robert L. Schlumpf  
Tullahoma, Tenn.

### Know Your Lawmakers

On behalf of the Tuckahoe Rifle and Revolver Club, Inc., I wish to congratulate you on your new special feature "Know Your Law Makers."

Robert W. Keene  
Tuckahoe, New York

### Paging An Author

Will Parker Crutchfield, author of the Williamsburg musket story, please contact the editors at GUNS?—Editors.

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SEE PAGE 66**

## GUN RACK



By R. F. CHATFIELD-TAYLOR

### NOTES ON KILLING POWER

AT LEAST SINCE 1912, when the Savage Arms Corp. came out with Charles Newton's revolutionary .22 High Power, there has been a more or less continuous argument regarding the relative merits of high-velocity, small bore bullets and comparatively slow bullets of greater weight and calibre. Men of unquestioned integrity and experience have advocated projectiles of both types; and many a camp fire has been kept burning far into the night by sportsmen who have felt violently on the subject, one way or the other. Having killed my share of game in the United States, Canada, Mexico, and Africa, I am of the sincere opinion that both factions are right—and that both factions can be wrong, depending upon conditions.

It might be well to consider just what it is that kills an animal. Insofar as firearms are concerned, the thing which kills game is a bullet which destroys certain vital organs upon which the life of the animal depends. Placement of the shot is by far the most important factor involved. This factor is controlled entirely by the ability of the hunter, and there is no substitute for it. There can be no great argument about this among thinking sportsmen. The arguments arise in connection with the best equipment with which to achieve this objective; and this is governed by many varying conditions.

In my experience, I have always found that a high-velocity bullet which actually reaches a vital area kills far more rapidly than a slow one regardless of calibre or weight. I am, therefore, a high-velocity advocate under conditions where it is reasonable to assume that such a bullet can and will reach such an area. Unfortunately, there are many circumstances wherein such an assumption would be a monumental error leading to total misses, wounded game and, quite conceivably, to actual danger to the hunter.

It seems to me that, among other things which must be considered, there are the questions of the size of the animal, the probable range at which the average shot will be taken, the characteristics of the terrain, and the potential ability of the animal to inflict damage on the hunter. If, for example, the desired trophy is a soft-skinned animal weighing 500 pounds or less, found customarily in open country where long range shots are the rule, then a man is justified in choosing a very accurate, 'scope sighted rifle of very high velocity. Such a rifle, because of its accuracy, flatness of trajectory, and efficiency of sighting arrangements will materially contribute to a hunter's ability to place his bullet in a vital area.

If, on the other hand, your game is something on the order of elk as to size, and if you will be hunting in thick timber, such a choice would hardly be a happy one. In the first place, it is probable that you will have

to shoot through some brush. In the second place, it is most likely that your only target will be the south end of a northbound beast. Under these conditions, a high-velocity, spitzer bullet is just about the worst medicine imaginable, since of all types its performance is the most unpredictable in heavy brush. The only guaranteed prediction is that you cannot predict. Both velocity and spitzer points mitigate against reliable bullet performance in brush and, therefore, one would be wise to choose a relatively large-bore rifle throwing a round-nosed bullet at not over 2400 ft. secs. and preferably a bit less.

In Africa, one finds just about every condition conceivable, as well as every size of game from dik-dik to elephant. The more experienced white hunters are quite willing, even anxious, to see you use a flat shooting, high-velocity weapon on much of the plains game, since well placed shots on that type of game are almost always instantly fatal and since it is easier to make well placed shots with that kind of rifle over long and unknown ranges. When, however, the shooting is done in heavy bush, when the bigger species such as eland, roan, sable, greater kudu and zebra are involved or, most particularly, if the game is of the dangerous variety, then the white hunters deplore the use of small-bore, high-velocity rifles and have been largely responsible for the current laws in British East Africa prohibiting their use on dangerous game. There is far too great an element of chance. A light, fast bullet may not get through the brush; if it does, it may be deflected to a non-vital area; and it may not penetrate through heavy bone and muscle even if it does strike the proper region. This is altogether too many "ifs" even for non-dangerous game. For elephant, rhino, buffalo, and lion, such a rifle is, in my opinion, unthinkable.

Two extremely experienced hunters have developed tables of killing power. They may not give all the answers, but they are very good yardsticks. Elmer Keith uses a system based upon what he calls "pounds-feet." John Taylor, if I am not mistaken, calls his "K-O Values." Both systems are based upon bullet weight and velocity, with the accent on bullet weight. Both of these men are experts, with lifetimes of experience in the field, and their comments should not be taken lightly. These tables may be found in Keith's excellent "Rifles for Large Game" and in Taylor's "African Rifles and Cartridges."

For some time I have been concerned with another factor which neither Keith nor Taylor include in their tables, although both authors make abundant mention of it elsewhere in their books. This is the question of sectional density, the formula for which is  $W/d^2$  where  $W$  is the weight of the bullet in

(Continued on page 59)



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## HANDLOADING BENCH

By KENT BELLAH



**T**HE .30 WINCHESTER Center Fire, generally called .30-30 by shooters, and *thutty-thutty* by gun writers, is a hell of a cartridge. The double meaning statement means it's mighty good for those who love it, and beneath the dignity of those who detest it. Handloaders look on it with contempt. What other .30s have, it lacks a lot of, except trajectory, which is the most in this age of flat-shooting hot-shots. The hull has been around long enough to have died twice from old age.

Despite these unkind remarks, the .30-30 cartridge has probably bagged more deer than any other in this century. You'll do well to add one saddle gun to your shooting battery. All of us need one good .30-30 and a set of high quality loading dies, plus casting equipment. Why blow some hard-earned bucks to own a senile weapon of the past? That's a good question that deserves a good answer. I especially recommend it, if you run in Hi-V gun society like I do.

I've owned dozens of .30 WCF's, and no rifle sells better on the used gun market. A .30-30 in the corner is like money in the bank. Right now I'm down to one beat-up, open sighted Model 94. Sighted-in with factory fodder, groups were a bit over 4" at 100 yards. A decent glass and Flaig's Ace trigger shoe would have screwed 'em down. On the way home a coyote started a fast get-away from about 85 yards. A 150 grain Super-X pill intercepted his flight like a Sidewinder missile on a journey of death and destruction. My flabbergasted companion loudly exclaimed, "Why you killed him!", like the feat was impossible.



Scope mount best for levers like '94 is Weaver's side type, (shown on M92).

A saddle carbine is a real fun gun, too. Winchester evidently doesn't know this fact, as they never advertise it. Handy as two pockets in a shirt, they are fine short range plinkers. Cheap and easy to reload, the cost is hardly more than rim fire ammo. You can shuck lead out faster than you can feed coins to a one-armed bandit in Las Vegas.

They do have an attractive Western look and flavor. The best appeal of a Winchester 94 or Marlin 336 is the fact these short, light, fast-firing guns handle like a dream.

This one outstanding feature has sacked up plenty of game and varmints for lads who used it to their advantage.

We Handloading Benchniks need a rifle for plinking cast bullets in volume, like handgunners. Little saddle guns do the job so well we can exceed the accuracy and/or velocity of factory fodder. Some riflemen look on the guns as crums from the upper crust of gun society, and on cast pills with even more contempt. If you like to let the air out of myths and deflate the ego of your Hi-V shooting companions, take this tip.



Popular .30-30 will yield more fun and much more shooting with reloads.

Get a good Model 336 or 94, not a beat-up clunker. Cast bullets generally require a slicker bore than jacketed pills. If the bore is chewed-up, or the lands slightly dull, you'll never obtain the ultimate in accuracy. Glass it with a good scope. Buehler's mount holds positive zero on Marlin 336s. Williams makes a good one, and Weaver has a new Pivot Mount, that I haven't used on this gun, plus their Detachable Top Mount that I prefer. Marlin's new top-mount scope rig is real fine. Best deal for a '94 is Weaver's Side Mount, installed on the off side so the stock serves as a cheek rest. A 4X glass is okay for testing your gun and ammo, and can be used for hunting. A 2.5X or 3X handles faster on running game at close range.

With a new rifle, burn up several boxes of factory fodder, carefully shooting for groups in strings of three to five shots. When your barrel heats up, your groups will widen, so don't be in a hurry. This initial shooting will slick up your new bore. Save all targets to compare with your cast or jacketed loads later. Reload your hulls, all the same Lot Number and make, with jacketed bullets, fiddling around with charges until you exceed factory accuracy. Always assemble precision ammo. Trim cases to 2.02", or 2.03" max, watching for hulls with non-uniform neck thickness after trimming and before deburring. These are discards. I'm partial to CCI primers with any charge. If not available, substitute W-W with light charges, or Remington or W-W for full charges. Use only Round Nose or Flat Nose cannellured bullets in tubular magazines. Sharp points might fire all the rounds in the magazine from recoil. This would be nasty and messy, and we'd lose one valued GUNS reader!

The 150-grain pills for .30-30s, such as made by Sierra, Hornady and Speer, and the 150 and 170-grain flat nose made by Norma,


(Continued on page 46)



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MAUSER Mod. 98 Military, 8mm, bores good to very good. Outside good, with sights. Each \$7.95  
 JAP RIFLE, cal. 7.7, original military, chrome lined bores, outside rough, original finish. Each \$6.95  
 REMINGTON 12-ga. 20" riot bbl. WITH extension. Each \$4.95  
 SAVAGE AUTO Shotgun, all model 12 ga., 26" Imp. Cyl. Each \$14.95  
 REMINGTON .22 Cal. Model 5107, New, Each \$3.95

**BRAND NEW HANDGUN BARRELS**



1. COLT NEW SERVICE Cal. 455 Eley, 5 1/2", ea. \$4.95
2. S&W Cal. .38 Special, 4", each 4.95
3. COLT DETECTIVE Spec., Cal. .38 Spec. 2", ea. 4.95

Assortment of 6 New Iver Johnson Barrels—2", 4" and 6", Cal. .22, .32 & .38 S&W, All 6 for ONLY \$3.95

**FIRING PINS VALU-PAK**



5 Enfield Pins  
 5 Springfield Pins  
 2 Jap pins  
 10 .45 Auto pins  
 10 Single barreled shotgun pins  
 (32 Firing pins) Our choice—no selection.  
 (Note: Price for any one firing pin is \$2.00.)

Only **\$5.95**

HEAR YE! FANTASTIC FOREND SPECIAL! FORENDS TO FIT THE REMINGTON MOD. 11 OR SAVAGE MOD. 720. 1 CASE OF 10 FORENDS FOR \$19.95!

**SPRINGFIELD '03 VALU-PAK**

1 Complete Milled Guard	1 Cut off Bolt Sleeve
1 Striker	1 Striker Sleeve
1 Ejector	1 Bolt Sleeve lock & spring & pin
2 Screws—F&R	1 Extractor
1 Firing Pin	

**\$50.00 Value FOR \$8.95**

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**Carbine stocks new complete, each \$4.95**

Iver Johnson—22 Safety Rifle, New, each.	2.95
Winchester 75—Excellent, each.	4.95
Winchester 75—Sanded but not finished, each.	3.95
Remington Model 11 OM 12 GA. Auto., each.	4.75
Ithaca 37 Com. finish, beautiful wood and fully checkered, each.	5.75
Savage Model 720-12 Ga. Stocks, each.	4.95
Iver Johnson 12 Ga. turned and milled—Double bbl.—ready to fit—no single bbl., each.	3.95
As above, Very fancy wood, each.	5.95
Iver Johnson double fore-end wood, each.	2.95
As above, fancy Walnut, each.	4.95
Garand stocks, new wood only, each.	4.95
B.A.R. Stocks, stripped, each.	4.95

**STREBCO'S FALL "VALU-PAK"**



Springfield Firing Unit As Illustrated—ONLY \$1.95

**STREBCO'S GUARANTEE:** "Your money's worth or your money back". We ask only that unsatisfactory merchandise be returned within 5 days—"as received".

**N. F. STREBE GUN WORKS**  
 5404 Marlboro Pike, Washington 27 D. C.





# 60<sup>th</sup> GRAND

Mike, Kevin Onka copped father-son crown 395 x 400 and youngster also took coveted Clay Target Championship.



Mile-long trap line is scene of world's toughest shotgun contest where experts and beginners burn up million shells to see who is "best." Big names may repeat wins but "dark horse" has chance at big Grand pot.



At Vandalia tourney Dick and Helen Urban won the husband-wife cup: Helen's 199 made her Hi-Lady.

By JIM NICHOLS  
*Dayton NEWS*

**D**OWN THE PATH behind the firing line at Vandalia, Ohio, during August's 60th Annual Grand American trapshooting tourney walked a little fellow in a green eyeshade. He strolled slowly with his wife, Sue, past the exhibit booths. Occasionally, they would stop and chat with friends. But most of the thousands of shooters and others in that crowd of 10,000 attending the Grand, hurrying along the walk or to and from the firing line, never noticed him.

His name? Arnold Riegger. He's from a small Washington town, Castle Rock. For those who know trapshooting and follow its history, Riegger is rated as one of the best of all time. There are those, good shooters themselves, who would strike "one of" and simply make it "the best." And



# CROWNS NEW TRAP GREATS



Top trap champ Arnold Riegger is praised by competitors as having great natural reflexes; set new run record.

**THIS IS WHERE AMATEURS SHOOT FOR CASH, PROS SHOOT FOR MEDALS, AND AN "UNKOWN" INVARIABLY WINS TRAPSHOOTING'S BIGGEST JACKPOT**

at the 60th Grand, Riegger, who had stayed away from the sport and its biggest tournament for a couple of years, put his personal stamp of approval on the claims of his friends.

During the Grand itself he broke 1422 straight 16 yard targets to set a new world's record run. This 1422 figure included registered and non-registered targets. (Registered are those in regular events of a shoot sanctioned by the Amateur Trapshooting Association. Non-registered are those fired at in a shoot-off or in non-registered competition.)

When he left the Grand he still had intact a run of 1020 registered targets. He headed West and in two more shoots set a new registered world's record of 1434, before missing in a club even in Los Angeles. Previous records of 1404 overall, and 1179 registered, were both set by another "great" of trapshooting, Joe Hiestand of Hillsboro, Ohio, more than twenty years ago in 1938.

But who is this quiet man from Castle Rock, who is so devastating with a shotgun? Riegger would pass unnoticed in a crowd. He's 39, stands 5' 5½", and weighs 180 pounds. He talks slowly and low, and dresses in the conservative olive drab clothes that you often see nowadays on a man of the farm. And why not? Riegger came from farm stock, although today his whole life is devoted to trapshooting.

But when you talk to Riegger and look into his eyes, you start to get the feel and the key as to why this man is a great shooter.

His eyes are a steely blue. They never waver. Of his shooting he says, "It just comes natural."

D. Lee Braun of San Mateo, Cal., a professional for "a gun company" and long-time member of Riegger's Grand American squad, says "He has the greatest natural reflexes I have ever seen. Just watch him shoot handicap. He does it with the same motion as singles."

Bud Decot, who handles shooting glasses for trapshooters and has examined Riegger's eyes many times, explains, "He has unusual distance perception."

For Riegger, trapshooting does provide a living, but it is also a matter of sport and pride. For instance, one of the events for which he tied was the champion of champions race for state champions only. For the event and shoot offs the match cost him \$42.50 and all he could win



Grand American Champ Clyde Baily accepts congrats of Harold Lippold whom he nosed out in close final shootoff.





Sporting centennial beard, Dick Krohn of Harvard, Ill., was one Grand winner.



Trap fans from all over world converge on Grand, stroll by colorful firing line.



Mile-long trap line has seen singles and doubles gradually fade from gunners racks and pump or autoloaders take prominence even for only one shot.

was a trophy. It should hardly need saying that Riegger has plenty of trophies; he has been shooting for a long time.

But, says Riegger, "I expect I have about 400 trophies at home. But I'm tied with this man, (in this case Dan Orlich of Reno, Nev.), and we have to keep shooting for the honor of winning and to see which man is best."

Riegger is also unassuming about his ability and fame. In the middle of his record-breaking string he stopped one day at the press house on the ATA grounds. He was talking with Jimmy Robinson, the Boswell of all trapshooters, and the man who annually selects the All-American teams.

Suddenly he broke off the strain of the conversation to ask Robinson, "I guess I'll make your team this year, won't I, Jimmy?"

Now Robinson is not known as a slow man in the retort department, but this made him halt for a few seconds before with a grin he replied, "Well, I don't know Arnold. You better get out there and break some more targets."

While Riegger was the outstanding figure of the 60th Grand American tournament, he wasn't the only one to contribute to trapshoot lore during its course. There was, for instance, Kevin Onka, a slim 16-year-old youngster from Sugar Creek, Mo. Onka took one title away from Riegger in a shootoff as he became the youngest gunner in history to win the Clay Target Championship of America. This is the top title among the 16-yard events.

Onka, along with four other top trapshots, including Riegger tied for the Clay Target top place with 200 straight. Darkness stopped the shooting on the first day when Riegger broke the record, getting his 1,420 straight bird.

It was at the start of the next day's shootoff that Riegger "slipped over the top" of his 1,423 target, to end the string. But while Riegger was missing on that day, young Onka wasn't. The youth, who has been shooting for only two years and hopes some day to be with his father in the grocery business, took the top crown. With the candor of

youth, he had said, before the shoot-off had ever started, "I want to find out how good that Riegger is."

The answer Onka got was not an accurate one, which he knew. But still, he had the ability to break them all, as fate took care of the stars he was competing against. His victory means he's a young man with a shotgun that must be reckoned with on the trapline for years to come.

When the shooting in the 60th Grand finally ended, the final list of champions contained one big surprise. The winner of the overall title for the 1,000 targets of the tournament was John Kurth of Columbus, Wis. Kurth is a big, hulking fellow, who long has been a good trapshooter. He didn't win an event at the 60th Grand. He didn't even get in a shootoff. But when the shooting was done he had broken 972 of 1,000 targets—best of the entire field.

The 60th Grand American will not be remembered as an outstanding tournament for women, but the headlines that were to be gleaned by the fair sex went to two tried and true performers. Mrs. Helen Urban of Mentor, O., took the women's overall for the second straight year with a 938 of 1,000.

The women's all-round crown went to Mrs. Iva Pembbridge Jarvis of Phillipsburg, Kan., with a 374 of 400. The all-round title is based on 200 birds in the Clay Target championship, 100 in the Grand (*Continued on page 47*)





Long range with remaining energy of .257 Condor was proved by MacFarland in long shots at plains antelope.

The varmint-flat,  
moose-strong

# .257 CONDOR

THEY SAID YOU COULD  
NOT GET FLAT TRAJEC-  
TORY WITH A HEAVY BALL  
AT MEDIUM VELOCITY —  
BUT HE DID IT

By HAROLD E. MACFARLAND

WHEN A COMPETENT ENGINEER decides to design a wildcat cartridge, some old ideas are given some new twists. The usual wildcatter reshapes an existing case, uses existing components, and the gunsmith chambers an existing barrel. Sometimes the loads are actually chronographed; and, rarely pressure tests are made. Sensational figures are arrived at, the new cartridge is given a fanciful name, and the proud originator is in business with a new wildcat.

The story on the .257 Condor is quite different. In 1946, Dr. Ramon Somavia conceived the idea that a projectile of unusually high sectional density would exhibit unusual ballistic characteristics, and he set out to prove it. Now, fifty barrels and many years later the .257 Condor is a reality and no longer a wildcat. The name is copyrighted, patents have been applied for on the design; and the cartridges, the cases, and the special bullets are readily available to the shooter or the handloader here, from Norma-Precision, Inc., South Lansing, New York.

The Somavia Ranch near Hollister, Calif., is one reason for the Condor design. Deer are numerous on those rolling grassy hills, but the choicer ones always seem to be five hundred yards out, with little cover from which to stalk them. Hence, the first requisite was a cartridge which would show a flat trajectory. Second, since Dr. Somavia does considerable hunting in Alaska, and Canada, the cartridge must be certain on heavy game animals. Flat trajectory must be achieved without the excessively high velocity which blows up a bullet on the hide or the first large bone encountered. Deep penetration was wanted. Muzzle velocity is impressive on paper, but velocity which counts is that delivered to the animal a few hundred yards out.

Hunters have noticed that the 7x57 Mauser 175 grain bullet, and the 6.5 mm. Mannlicher-Schoenauer 160 grain bullet exhibited killing qualities out of all proportion to their size or paper ballistics. They also showed a lot of remaining velocity, compared to modest (Continued on page 42)



In high country new rifle got workout, took mulie successfully with big bullet.





CHIEFS SPECIAL  
AIRWEIGHT .38

K-38 SPECIAL  
TARGET MODEL

# TINY GUN GIVES BIG

A NEW SHOOTING GRIP, AND PRACTICE,  
ARE ALL IT TAKES TO GET COMBAT ACCURACY  
OUT OF THE HARD HITTING AIRWEIGHTS

By ROGER W. DeBAUN

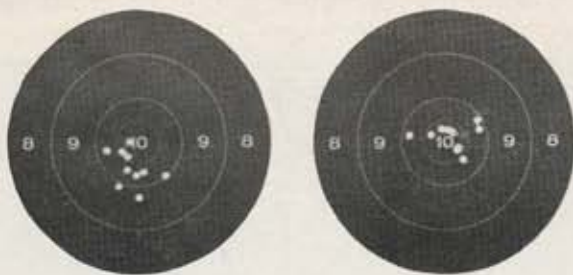


DeBaun's hand around butt: second finger joint is past guard; thumb locks it firmly.

ALTHOUGH CHAMBERED for the potent .38 Special cartridge, the Smith & Wesson Chiefs Special Airweight revolver weighs only 12½ ounces, half as much as the average police gun of that caliber, has a barrel only 2 inches long, a sight radius of only 3½ inches, and a diminutive stock that will accommodate only two fingers of a man's hand. How effective can this small gun be in combat shooting?

To the multitude of shooters conditioned for years to the idea that accuracy in handgun shooting requires plenty of weight, 6 inches of barrel, custom fitted stocks, and big adjustable Patridge sights, the little Chief may seem to be just an amusing toy. How would it be possible to control the recoil and jump of this almost weightless gun?





What happens to the shooter's hand? Is there any accuracy or power possible from that stub of a barrel? All of these questions were in my own mind when I began a try-out of the weapon a year and a half ago.

The first thing I learned was that, for my large hand, the generally accepted correct hold for a big target revolver was not suitable for the Chief. With each shot, the second joint of my middle finger was taking a beating from the rear of the trigger guard. Repeated trials over a period of days indicated that the hold recommended by some double-action advocates was the one giving me best results in any kind of shooting with the midget weapon. It carried my fingers around the stock far enough to bring the second joint of the middle finger past the trigger guard. Such a hold lets the stock settle firmly in the palm of the hand. The thumb rests snugly against the side of the frame and points downward toward the tip of the trigger finger. In this position it provides firm support and avoids any chance of recoil injury from safety latch and cylinder, at the same time providing trigger finger control in slow fire double action.



Slow-fire 30' targets prove Chiefs accuracy with 2.5 grain Bullseye handloads, 148 grain wadcutters. In crouch, gun is held hard.

Three important advantages accrue from this hold. Great leverage in double action is gained by having the second joint of the trigger finger resting on the trigger. The gun is so well embraced by the hand that the two seem almost a unit. A very tight grip without strain or tremor and almost without conscious effort is achieved, and this eliminates all slipping and twisting of the gun within the hand. The sum of these factors was that recoil no longer seemed severe and the bruising of my knuckle was ended.

Having found that the gun was (Continued on page 62)

# PERFORMANCE



Snub .38 can deliver good hits at good range: silhouette is 40 yards off. Fingers wrapped tightly about stock (above) aid DA control. Ten yard targets were easy for 2" gun.





THERE'S A "PERFECT" GUN FOR EVERY  
TARGET, BUT AMERICAN HUNTERS CAN GET BY WITH

# 3 GUNS FOR BIG GAME

By CLYDE ORMOND

EVERY HUNTER with one rifle pines for the day when he'll be able to own a battery—one for each class of game he expects to hunt. Similarly, the man who owns a dozen fine rifles longs for "just one more"; and many such a man finds that, with many rifles he gets to shoot each one less, and remembers the added skill, through practice, of the one-rifle hunter.

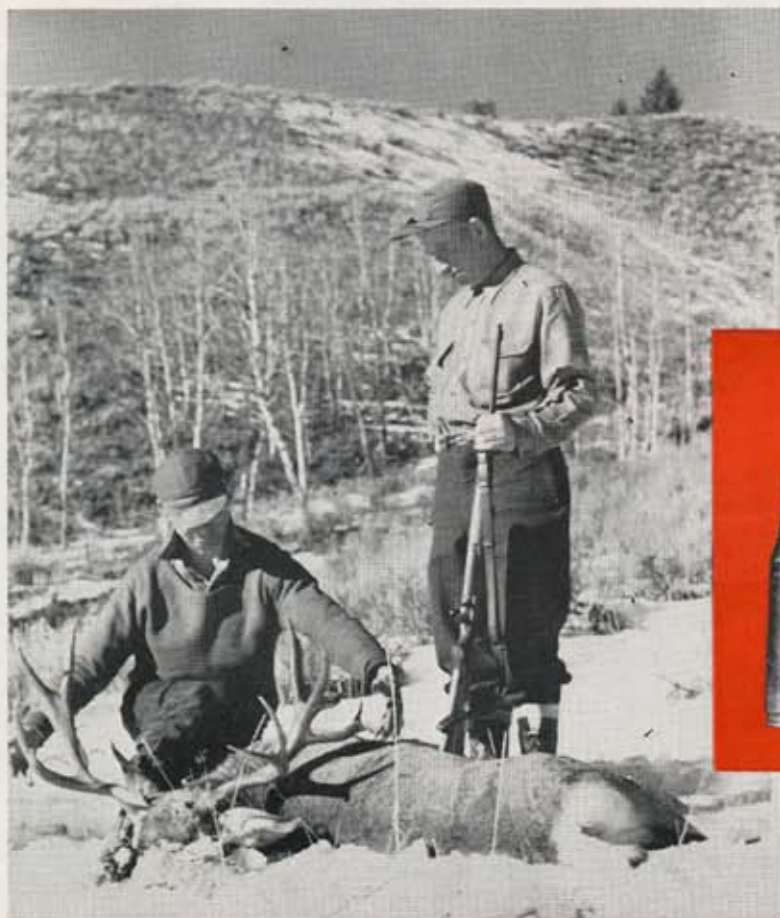
Nevertheless, the goal of every shooter is a battery of ideal rifles and cartridges. And a sensible battery is necessary if one is to take full advantage of North American hunting. The one-rifle hunter should, must, compromise—

must choose the nearest thing possible to that mythical "all around rifle."

The big trouble with any compromise is that it is ideal in no single department. The compromise rifle is like the "average" man: there's no such thing. The fine old '06 is a wee bit too small for brown bear, grizzlies, and elk; it's a bit more than is needed for average deer; it's a trifle too slow for the longest-range shooting at sheep; and it's too much for chucks and other varmints. But despite all this, the .30-06, variously loaded, is a good all-around cartridge.

The hunter who starts with a two-gun battery generally straddles the '06, going lighter in one direction and heavier in the other. He may wind up with a .257 Roberts and a .300 H&H Magnum—a fine two-gun battery. But in this combination as well, there are certain conditions where neither will quite fill the bill.

After 30 years of big-game hunting and 121 head of American big-game, I've reached the conclusion that there are currently three rifle-cartridge combinations which together will make a nearly ideal rifle battery. By that I mean that at least one of this group will fit the



Paul, Glidden McNeel, Wyoming guides, look over mulie taken by author's .243. Kill illustrates overlap of cartridges. Above, .243 in Hornady and factory bullets; 7mm S & W 120, 160 grain; .338 WRACo. 200 and 250 gr.





Alaskan outfitter DeHart poses behind author's caribou, shot with 160 gr. Norma load in 7 x 61 Sharpe & Hart.



Alaskan moose fell to .338 Magnum in Model 70 Alaskan which is tailor-made for bigger North American game.

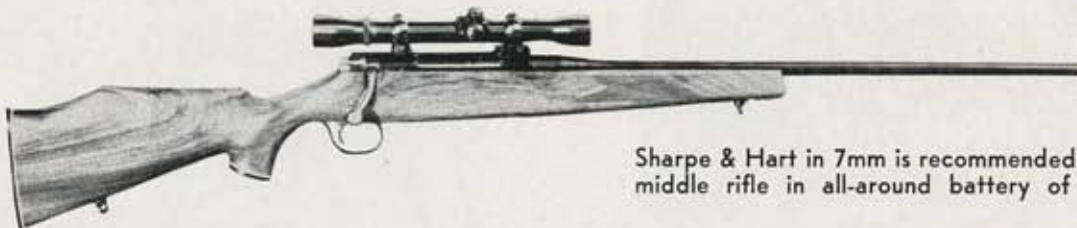
hunter's needs adequately under every foreseeable hunting condition. Before listing them, let's see just what any such battery must do:

First, the ideal battery should cover all North American game from brown and grizzly bear down to pint-sized deer, antelope, and the larger varmints like bobcats and yodel-dogs. In addition, it should include all the major pests like chucks, crows, jack-rabbits, and even magpies.

To do this, all cartridges chosen must be superlatively accurate. Accuracy here means that with proper loading, good bedding of the stock, and adequate sights, the cartridges should approach that ideal of minute-of-angle groups. This is especially true of those cartridges meant

for the smaller species, since accuracy in the hunting field should vary, if at all, in proportion to the size of the game hunted. In other words, a 2-inch capability in the cartridge meant for bull elk is more "accurate" in game shooting than a 1-inch capability in the crow cartridge.

Next, all cartridges of any ideal battery should be of relatively recent development, and should have good public acceptance. In short, they should be good enough and popular enough to be around a long time. It would be foolish indeed for a hunter to save his shekels to buy an "ideal" rifle whose cartridges proved to be but a flash in the pan. For similar reasons, both the rifle and the cartridge chosen should have factory- (Continued on page 53)



Sharpe & Hart in 7mm is recommended as the middle rifle in all-around battery of three.



Above, Winchester's .338 Alaskan comes with Monte Carlo comb, kick pad, takes all glass sights and mounts. At left, smallest bore of three gun battery is .243, shown in Savage 99.





# TREE FARMS: New Hope For Hunters...



Making hunters responsible for fire lookout cut Illinois tree farm annual fire loss.

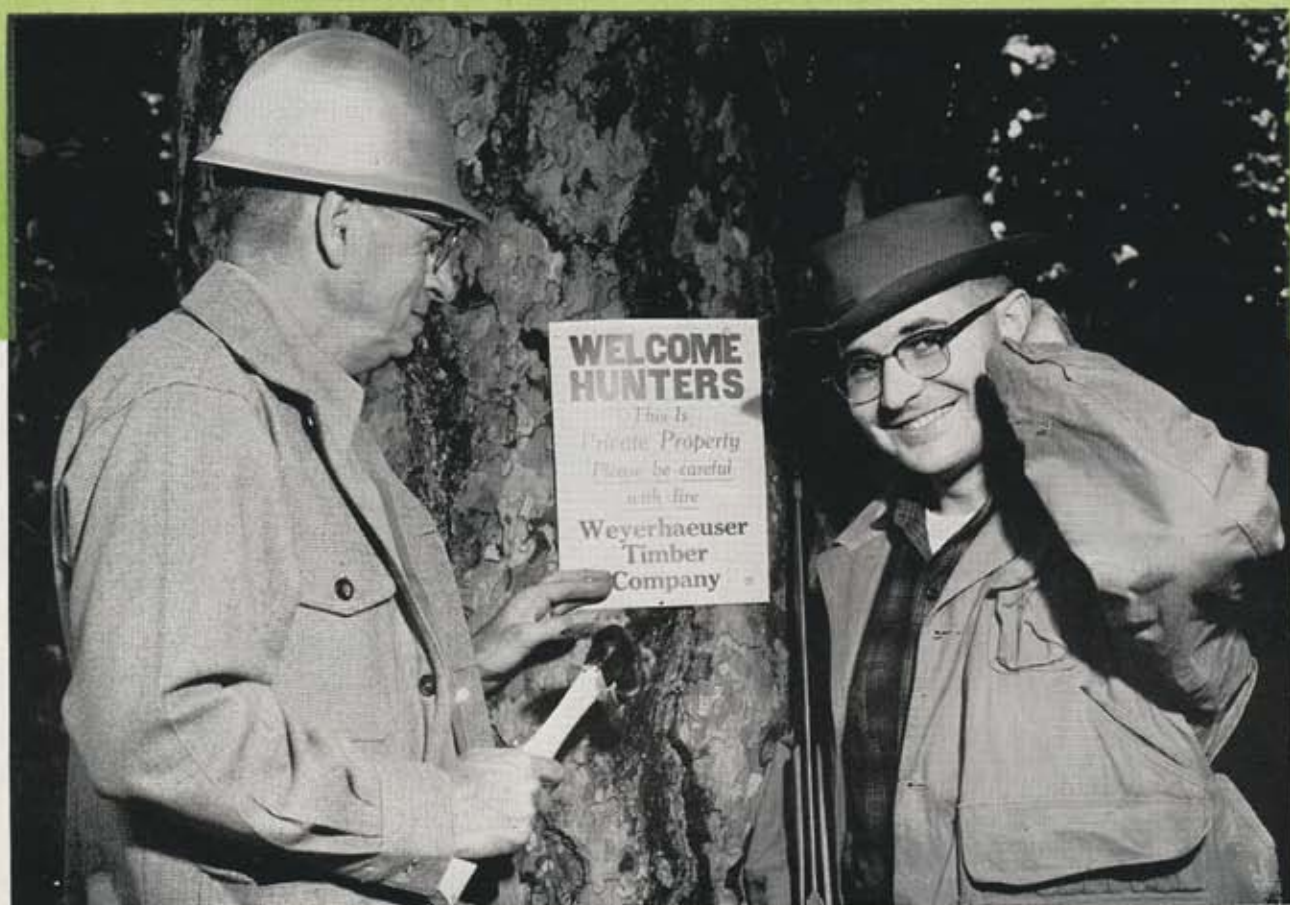
By BILL CLEDE

*Shooting Promotion Division, Winchester-Western*

THE FOREST STRETCHED BELOW as far as the eye could see. Across it cut the highway, seen through a carpet of green tree-tops. Not a crossroad nor a building marred the perfect lawn of trees. At intervals along the road, white diamond-shaped signs were hung on the fence. In their round green-ball centers was printed the words, TREE FARM.

They could just as well have said, "Game Farm," for the wood products industries are telling the world about the wildlife that lives in these managed forests. The significance of the wildlife is summed up in the title of a booklet by Arthur Carhart, "Trees and Game—Twin Crops." Says Carhart, "Wise management of timber and of game is directed at the production and harvest of each as a crop—indeed, they are twin crops."

Hunters are learning how this works. Around the 1,500 acre Tree Farm of Mike Drumstra, of West Frankfort, Ill., the shotgun's roar is a familiar sound. There, within an area which Drumstra transformed into



Private timber lands running to millions of acres are now open in all parts of the nation for hunters. Some areas charge small camping, grounds' use fees but most are free. Tree farm plan calls timber, game twin crops.





Tree farms like Olin Forests in Louisiana include lakes for waterfowl hunting (left) but most are wooded stands (above) like deer-crowded Ponderosa Pine woods in Oregon.

## AT SIGN OF GOOD HUNTING, TREE FARMS OFFER SPORTSMEN MILLIONS OF ACRES OF WOODS, BEAR, TURKEYS AND DEER



Paper firms' trees shelter turkeys with all the wildness—and tastiness—that marks the noble bird.

a recreation paradise only a few years ago, sportsmen from a wide area enjoy good hunting, fishing and the pursuit of a good life out-of-doors.

Drumstra's Tree Farm, on which he grows timber as a crop, is an example of the many Tree Farm properties providing recreational values for American outdoorsmen today, while growing timber for tomorrow's needs. But so far this story is little-known among sportsmen. Too few of us realize that well-managed hunting territory may be just around the corner, conveniently located near large cities. Of forest land acres in the U.S. today,  $\frac{3}{4}$  are classified "commercial." Commercial timberlands are those which are intended to produce timber in commercial quantity for sale and manufacture. It does not refer to the ownership status. Of the 643,000,000 acres of American forests, over half (or 358,250,000 acres) are privately owned. A Tree Farm can be as small as 3 acres (average of the smaller ones is 79) owned by an individual. By contrast, corporate-owned Olin Forest exceeds 500,000 acres in Arkansas and Louisiana. Four and a half million companies and individuals own timberland properties. And this timberland can be your hunting paradise.

Tree farmers are vitally concerned with the wildlife in their woods. Wild game, you might say, has rights by birth to its forest home. The woods provide food and shelter for wildlife and the health of both trees and game is dependent one on the other. One of the classic examples is pointed out in Carhart's booklet, "The Case of the Kaibab Deer." The deer population "exploded" shortly after World War I on the Kaibab Plateau north of Arizona's Grand Canyon. The Kaibab is naturally isolated by the canyon on the south, and by desert on the other three sides. The deer were, and are, dependent on what the plateau has to offer. Deer



browse was abundant. The area was difficult to reach, so both deer and timber were left to their own resources without outside intervention.

Between 1918 and 1924, the deer herds grew from an estimated 20,000 head to over 100,000. However, experts estimated the food supply was capable of supporting only about 32,000 deer.

More than three times the natural number of deer fed on the tender browse, so it was soon eaten out. Thousands of deer starved and thousands of young trees were stripped of their life-giving foliage. Arguments raged—should the surplus deer be harvested? Several highly qualified observers believe the Kaibab deer population hit bottom with less than 5,000 surviving.

Nature maintains a balance between wildlife and its food supply—the forest. When deer populations outgrow the food supply, as they did on the Kaibab range, starvation drastically cuts the numbers. If they didn't die, too many deer stripping young trees of edible bark could kill the forest itself.

A 1948 survey in Wisconsin determined that the overabundant deer population there was destroying young trees at a rate one hundred times that season's loss by forest fires. So the deer population is reduced by Nature to preserve the forest. This is one of the fundamental concepts of conservation.

While the primary purpose of a Tree Farm is to grow timber as a crop for use in the manufacture of more than 5,000 items Americans use every day, the multiple use of these timber holdings benefits both sportsman and forester. Planned harvests of the surplus big game helps to maintain Nature's balance and prevent useless wildlife waste by

starvation. Keeping this balance helps, too, in giving the forest an opportunity to rejuvenate itself and replace the trees harvested for their wood. Studies have shown that harvesting the surplus deer eases the eruption and collapse pattern demonstrated by the Kaibab deer, and it saves the forest from the rampage of hungry mouths seeking out the young and tender shoots of new forest growth.

Conservationists know that a healthy deer herd can more than double its size in just one season—so planned harvesting is vital. And planned harvesting, of its "twin crops," is vital to the Tree Farm concept.

The Tree Farm Program, though still in its infancy, is a nationwide movement begun by the wood-using industries. Its purpose is to bring many smaller forest properties under good timberland management. Most of the larger holdings are accredited Tree Farms and thousands of the smaller ones are enrolling in this tree-growing movement.

The interest which started this project is, naturally, a business one—to assure a high level of production, yet guarantee a future wood supply. To become a Tree Farm in this National system, a forest property must be privately owned, tax-paying and dedicated to growing repeated crops of timber. It must be managed in accordance with good forest management practices including protection against fire, insects, disease and destructive grazing. The accredited tree farmer must necessarily give consideration to other inherent values of the woods as watershed protection, wildlife and recreation areas. Increased wood production is foremost, but wildlife production is also increased by good forest management. Information on the Tree Farm System is available from American Forest Products Industries, 1316 N Street N.W., Washington 6, D.C. (Continued on page 52)



Pete Mondino of Ill. gun club calls ducks at Drumstra tree farm. Club members help reduce fire hazard. Above, Weyerhaeuser timberman marks a company cabin for hunters' use.



Typical smallbore sporter is chambered .22 JGR by Canadian developer Johnny Gower.



**CHEAP, RELOADABLE, WITH VARMINTER VELOCITY, THIS NEW BOTTLENECK .22 CENTERFIRE IS CREATING A SUDDEN FUROR**

# THE HOT NEW ".22 JGR"

By CHARLES HEBERT JR.

FROM CANADA COMES the newest (and the hottest) of the current midget .22s. Dubbed ".22 JGR" after the initials of its designer, John Gower, the baby bottleneck cartridge is a centerfire, having about the same body diameter as a .32 auto case and the same overall length as a .22 Long Rifle. But in a rifle, its 4-grain capacity case, deliberately overloaded when five grains were jammed in with a punch, slammed a 40 grain jacketed bullet through a Hollywood chronograph tape at 2505 feet per second. Nearest competitors in the speed race are the .22 LR Hi-Speed 40-grain pill at 1335-65 fps, the .22 Winchester Rim Fire at 1450, now obsoleted by the .22 Winchester Magnum Rimfire at 2000 fps.

The .22 JGR also has a very significant merit: with rechambering and minor clip and bolt face changes, it will fit and function safely in almost any good-grade bolt action rifle adapted for the .22 Long Rifle. In handguns, heavy frame swing outs such as the K-22 or Officers Models can be altered to use the rimmed versions of the JGR, while the rimless version (Continued on page 50)



ALL RIMFIRE .22 HORNET (4X36R) ALL .22 JGR  
UNBURNED POWDER PRINTS ON ELECTRONIC CHRONOGRAPH  
TAPE 20" FROM THE MUZZLE ON .041" FOIL

222 REMINGTON LONG RIFLE .22 .22 JGR MAG. SEMI-RIM .22 JGR MAG. RIMLESS .22 JGR SEMI-RIM .22 JGR RIMLESS .22 JGR RIMLESS  
22LR HIGH SPEED DIMPLED 1/16" DEEP  
STANDARD .22 JGR CUT  
5/16" HOLE - 3/16" STEEL

JGR in regular and magnum versions is midway between Long Rifle and centerfire .222. Versatile load burns powder well in shouldered case.

Tool, die, scale for JGR compact reloading outfit.







Key to better shooting can be proper fitting jacket. Pads help hold elbows in prone, but also can aid keeping sitting position. Gloves should protect hand from tight sling.

## *Dress Right, Shoot Better*

By BERNARD P. FRIESECKE



Realistic shooting garb for women won't be "smart" but can always be neat. Yellow glasses, corrected if need be, enhance sighting. Walking shoes aid kneeling, standing.





## WEARING CORRECT SHOOTING GARB CAN BE MAJOR FACTOR IN SHOOTING SKILL FOR TARGET RIFLEMAN, WOMAN

**I**N YEARS OF SHOOTING in both small bore and high power rifle matches, I have found that one of the leading factors in poor or inconsistent scores is the wearing of improper clothing while shooting. In no other sport in the United States can one find a greater conglomeration of wearing apparel than in shooting. You need only go to a single rifle match of any size to confirm this. A competitive shooter should realize he is essentially an athlete, and he should dress like one.

This entire subject of shooter's clothing, or uniform if you like, has been seriously neglected in the past few years. There are many references on hunting apparel, but few or none on the competitive rifle shooter's clothing. Many shooters, as most of us know, spend large sums of money and time on the best rifles, scopes, and accessories. But little or no thought, time, or expense is spent on shooting apparel. The shooters we often see at a rifle match wearing an old shooting jacket over regular everyday street clothes are as ill-prepared to do their best as a player who shows up at a football game with an old worn jersey and shoulder



Author wears best garb. Sweatshirt under jacket, stiff shoes aid accurate shooting.

pads over his street clothes. Of course, a shooter doesn't engage in the rough personal contact of the football player. But his dress is as important to his shooting as is the football player's uniform for protection.

Now, what makes for a good shooting uniform? Being comfortable is necessary for good scores, but few shooters agree on how to be comfortable. The following uniform is one which I have used successfully for many years, and it is used by many service rifle teams. Most of the items in the uniform, with the exception (Continued on page 55)



Winner George Stidworthy of recent Refield Gun Sight Co. matches in Denver was aided by good jacket, eye-shading cap, as well as sights, ammo, rifle. Try on jackets to determine good fit.



# "TRAINFIRE" FOR KIDS



Spotting shots for prone rifleman reveals cut-down M75 Winchester can do a good job, almost like bigger M52. Rest gives young shooter confidence quickly.

**KIDS FROM TOTS UP GAIN SELF RELIANCE, GOOD GUN HABITS, AND PRACTICAL FIELD-SHOOTING SKILL FROM THIS FUN-TARGET COURSE**

By ALLYN H. TEDMON



Backing up Junior may be needed with first grader until he develops skill in handling gun. Drop of stock adapts little rifle to small bodies, big heads.

"JUNIOR TRAINFIRE" originated years ago when my wife and I set out to teach our boys the type of rifle training we hoped would guard them from gun "accidents" and at the same time satisfy the gun hunger that exists, sometimes undiscovered but there, in every American boy and girl. Our program was an unqualified success, for our kids and for others; and when I saw "Trainfire I," the best rifle training program the Army has yet produced, being fired at Fort Carson, Colorado, I asked the Army for permission to call our plan "Junior Trainfire." I got permission. It fits; the two programs teach the same basic principals of rifle marksmanship. The child (or the G.I.) who masters either "Junior Trainfire" or Trainfire I is not only "safe," he (or she) is ready for those vital, unexpected shots that pop up in the hunting field or in combat.

Our eldest son received his first rifle when he was about 5½ years old: a Stevens Maynard Jr. .22 with a Lyman tang sight. At about the same age, the second boy acquired a Stevens Little Scout, altered to fit, with an



aperture rear sight. These two little rifles, now training grandsons, have devoured carton after carton of .22 Short and Long Rifle ammunition, being fired mostly at tin cans and similar objects, not at formal bullseye targets. When our little granddaughter reached the ripe age of 5½, she started firing Junior Trainfire with a second Stevens No. 14½ Little Scout, stock cut to fit and painted bright red in deference to feminine taste, with a Lyman aperture tang sight and a nifty carrying sling. She loved the gun, loved the shooting, and came to be a pretty formidable opponent in any shooting situation.

Junior Trainfire has proved fascinating to the sub-teenagers who have tried it; and, although some of the prone-with-sling target punchers may scoff, it turns out good riflemen, even by paper-target standards. Try it and see.

The program is designed to be fired outdoors, in the fields, under existing local conditions. Details can be ad-



Less than seven years old, Junior Trainfire "riflegirl" centered 89 first shot; exploded nearly 100 juice cans.



Junior guns tried include (top) Stevens 14½ Little Scout with sharply dropped stock; Maynard Junior with cartridge strip which was author's first attempt at remodeling for little guys, had too-straight stock; Remington 514, popular current model for kids.

justed to fit such conditions, or, if outdoor shooting is out, much of the program can be fired indoors when a suitable place is available. Some of the program's big appeal to the subteeners will be lost by moving it indoors, but half a loaf is better than none. Remember, the objective is to produce safe, confident, competent riflemen, not one or two target champions. For the little guys and gals, the shooting must be fun; the firing periods should not be long or demanding, except as to the inexorable firearms safety rules. Make the shooting a game, a privilege, never a chore.

A place to shoot from, with a good backstop, is the first requirement. You need at least 50 feet in the clear, to start. Usually, permission to use an isolated spot on some farm can be obtained if the owner is properly approached and the privilege is not abused.

Of next importance is some sort of a bench rest from which the kids can shoot. All firing, for some time, must be done from this rest; this is the basic secret for success. A beginner, regardless of age, can be taught more from a



Stevens Little Scout which once was "Daddy's" favorite at tender age is back on job teaching 8-year old son.





Short 11½" stock is just right for 14-year old girl, if drop is right, but barrel shown is too long for steady hold.

rest in one hour than can be taught as well from any other position in a lot more time.

The bench rest may be any steady table or bench with top approximately 18 by 24 inches. An old ironing-board, with legs cut off to proper height is fine. The shooter sits close up, with the top of the rest at his waistline; and leans a bit forward, resting on both elbows, left hand supported by a sandbag or blanket roll. (Don't sprawl.) Sandbags can be made about 6 by 8 inches, of tightly woven canvas, loosely filled with fine sand. Use two. For more height, use 8"-long pieces cut from an 8" board. If bench rest is impossible, use the prone position with sandbag rest. It's not as good, but will do.

For ammunition, the .22 Short in standard velocity is

10½" stock for 20 inch arm (measured from arm pit to finger tip), an 11½" stock for a 22 inch arm, a 12" stock for a 24 inch arm, and so on. Anyway, cut the stock to fit, and when the arms grow longer, use 3th-inch aluminum plates under the butt plate for extra length.

One other thing about stocks, and this is important: the youngster's rifle needs a lot of drop. Three inches or more is not too much. The stock must fit the short arms and comparatively large head. Our little granddaughter used her Stevens Little Scout, with 8¾" stock and 3¼" drop until she was past eight years old.

Many trigger pulls as issued will run around 8 lbs. A good gunsmith can usually reduce this pull to around 4 lbs., where it should be. Don't handicap the little shooter with a too-heavy trigger. If it's heavy for you, think how it feels to his small fingers.

The most satisfactory off-the-counter rifles for this practice are the self-cocking bolt actions, box magazine or single shot but single shot preferred, with stock and barrel cut to fit. While the hand-cocked models are not necessarily safer, they shoot as well and are less expensive. Tie a whang-leather loop to the bolthead to insure a safe grip for small or slippery fingers. Tube magazine and self-loading models are not suitable for this type of training.

Good sights are a must. A less expensive rifle with good sights is a far better bet than the reverse. Most of the available bolt action models can be had with rear aperture sights at a slight increase in cost. For rifles lacking an aperture rear sight, the 22 Sharpshooter model by Redfield is a good bet and very easily fitted to grooved receivers. The front sight should be post or blade, with or without a bead. Sight the rifle in to hit at the top of the front sight at 50 feet. A .22 rifle sighted in at 50 feet will be good out to about 45 (Continued on page 48)



plenty accurate and less expensive. For indoors, the .22 C.B. Cap is less noisy but does not have the zip and costs about the same as the .22 Short. In some stores, the ammunition may be had at a little less cost bought by the carton; ten boxes. You'll need numerous boxes of ammo; charge it to life insurance and education. You will also need a supply of tin cans. If your kitchen discards are not enough, there is an unlimited supply in every town dump.

As to rifles, the only models available that are at all suitable as-is, are the Winchester Model 67 Boy's rifle, and the Stevens Model 15 Boy's rifle. The stocks on these should be cut off 1½ to 2 inches for a fit for the average 7 to 9 year olds. The rest of the "Boys Rifles" are full size guns that must (and can) be cut down, both stock and barrel. You must fit the rifle to the child, not the child to the rifle. Pete Brown's chart on stock length, once published in "The American Rifleman," recommended a

Remington 517 cut to fit 12 year old girl made her top shooter in her area. Rifle was fit for rest or prone shooting, at bull targets or (right) cans.





# Gun OF THE MONTH



THE OLD • THE NEW • THE UNUSUAL



EARLY COLT SHOWS AMERICAN ENGRAVING STYLE THAT  
DIFFERS FROM USUAL PRESENTATION FINISH

By COLTON SAMUELS

SOME COLT COLLECTORS have emphasized the "Wolff engraved" revolvers to the point of mania, pointing to the dog's head scratched on the hammer or incorporated in the barrel motif as if this imparted some especial virtue to the item. Unseeing, or perhaps incapable of really seeing the engraving—seeing its quality, how the scrolls are turned, how the background is filled—they express this virtue in terms of vastly enhanced prices.

Refreshing, then, to the serious Colt student is this example of non-wolf head engraving on an early Pocket Model "1849" pistol numbered 17,536 and probably made about 1850-51. The engraving is in some ways different from that style later commonly seen on Colt percussion revolvers and often called "Wolff." Most important distinction is a detail we have not noticed on many other Colt engraved revolvers: a fine line background. The spaces between scrolls are grooved with tiny parallel lines instead of the common "fish roe" circles which later degenerated into a design about as decorative as center punching with a nail set. Instead, the lines of this pistol's engraving background run horizontally on the right side, and vertically on the left side. The style suggests that Sam's guns may carry engraving of a variety of "schools," if one had the patience or the money to compare a wide selection of them. (Continued on page 61)

No dog head motif and technique of work proves ubiquitous "Wolff" did not engrave this unusual 1849 Colt.







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Beautiful, clean 8MM Ball ammunition, all brass cases, and boxer (reloadable) type primers. True 0.323 bullets alone worth practically this give-away price for these complete M.C. cartridges for those shooable 43 Remington favorite Mauser at this shooable price, for stocks of this select ammo cannot last forever. Don't delay, order today.

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ALL PRICES VALID ONLY FOR MONTH THIS AD APPEARS



Canada gunsmith Hall confers over Enfield conversion with friend and customer Martin, in Ontario gunshop.



# From ENFIELD to SPORTER

By LESS HALL



Scoped converted Enfield has new muzzle brake, open barrel sight and streamlined action with ears knocked off. Below, military bands are scrapped; guard tang straightened out.



## CONVERTING .30-06 ENFIELD INTO SLICK

### .300 H & H SPORTER MAKES GOOD HOME-WORKSHOP PROJECT FOR METAL-WORKING HOBBYISTS



American Enfield is club as-is, can form basis of finest sporting rifles.



Simple chopping of stock, sanding, adapts rifle for woods' use but if Hi Standard or Johnson-barreled can be worked over into .300 H&H Mag.

**T**HE BIG BARREL, long rugged action, and the low-cost availability of the "P-17" make many do-it-yourselfers cast an appreciative eye over these common military rifles. What we in Canada call the P-17, to distinguish it from the .303-calibered Pattern 1914 service rifle, is the "American Enfield," Model 1917 U.S. service rifle. Made by Winchester, Remington, and the Remington-operated Eddystone, Pa., factory in War One, these rifles are attractive to the home mechanic with some of the basic metal working tools who wants to rework one to his own ideas of a sporter.

The P-17 is chambered for the .30-06, but the action was originally designed for a slightly longer experimental round that was never produced. It is a good one for changing over to the powerful, flat-shooting .300 Holland & Holland Magnum cartridge. In Great Britain, the identical action is used by that company in making their .300 and heavier Magnum sporting rifles. The only caution in selecting a P-17 for .300 conversion is that you buy a good rifle to start with. Many during War Two were rebarreled by High Standard or Johnson Automatics, so barrels marked H-S or JA near the muzzle are especially good for this conversion.

After you have received your rifle, the first thing to do is remove the military stock from the action. Before you remove it, take note if it is closely fitted. You can use this old stock to take measurements for your new one.

Next, remove the bolt and strip it down

to the bare bolt. Remove bolt plug and firing pin, and the extractor. The bare bolt will have to be set up in your milling attachment on your lathe and the bolt face recess enlarged to accept the larger head on the .300 Magnum case. An end mill approximately 18 to 20 thousandths larger than the head of the case, set up in your chuck, will do this nicely. Make sure that you have it properly centered, and do not cut in deeper than the original face. Remember, this is merely enlarging the recess, not deepening it.

The open corners of the lips may have to be rounded out with a fine file, and do not do this until you are sure it is necessary, depending on how the cartridges feed up from the magazine.

The next step is making the reamer to rechamber your barrel. You can buy one if you wish but they are expensive to budget out on a one-rifle job. And anyway, you'll get a much greater kick out of making it yourself.

Unless you have a grinding attachment for your lathe, to finish-grind after hardening, don't make it out of high speed steel. This steel will warp on heat treating. The best steel I have found for reamers is the brand known as "Keewatin." With this you can cut your reamer to exactly the size you want, and it will warp an absolute minimum from heat treating. Make your reamer not more than two thousandths larger than the largest case you find. You will find they vary considerably, both in diameter and length. Buy two or (Continued on page 44)



Fancy change-over uses new stock, short pipe and brake, action, magazine modified.





Mexican jungles swarm with wild pigs, both collared peccary and white-lipped javelina (left). A native guide (above) packs one through typical mountain jungle.

# Why Not Try Mexico?

**THERE'S FABULOUS HUNTING SOUTH OF THE BORDER IF YOU CAN GET PAST THE BARRIERS, AND HERE ARE SOME WAYS AROUND THEM**

By **RUSSELL TINSLEY**



Javelina roam in large bands, are hunted with dogs or by trackers. A herd may number 25 or more animals.

**T**HE VAST, MOUNTAINOUS, jungle country south of Mexico City still is an untamed wilderness, unexploited for big-game hunting. It probably will remain that way for many years to come. Today, little is known in the United States about Mexican hunting, and at times it is rather difficult to separate fact from fiction. The Mexican Government gives out little information on hunting in the country; in fact, the government actually doesn't *know* much about hunting, nor does it attempt to exploit tourist hunting trade.

Yet in this wild region there is a wide variety of game animals to appeal to the American hunter. The most-sought prize is that dangerous and elusive cat, the jaguar.

But jaguar hunting, at its best, is still a long-shot gamble. It might require weeks even to see one, much longer to get a shot. Jaguars are few and far between. Marshal "Tex"



Purvis, former outfitter in Mexico, says there are many claims of jaguars being sighted, but when hunters go after the phantom cats they usually are chasing an unfounded rumor. "A hunter's only reasonably fair chance of getting a jaguar is by hunting with good, trained cat hounds," Purvis explained. "Of course, the hunter may get one by other means, such as hunting with a native guide, but the chances are so slim that the odds are not even worth mentioning." But it is the challenge of the elusive cat which, more than anything else, lures American hunters South of the Border, and this is not as it should be, since there is fabulous hunting of other game which should delight the hunter even if he should fail to get a chance at a jaguar.

One of the better possibilities in javelina. There is an astronomical population of these wild pigs in the jungle-covered mountains, both collared peccary (javelina), the specie found in Texas and Arizona, and the white-lipped javelina which ranges primarily in South and Central America.

There are various smaller cats which are easier to hunt and kill and are more plentiful than the jaguar. One is the *ocelotte*, a cat similar to the jaguar but smaller, and the *jaguarondi*, another miniature replica of the jaguar.

Deer are plentiful in most areas. There are three major species—red brocker deer, whitetail deer, and coues deer. The red brocker deer is a tiny animal with a maximum height of 29 inches. It scampers through the jungle much like a jackrabbit and offers a sporting target for the hunter. The whitetail is the same deer which ranges throughout the United States. The coues is a dwarf whitetail, an average buck weighing 75-85 pounds.

The javelinas roam in large, wandering bands. Some natives hunt them with dogs, but the majority of Mexicans track them down. They search until they discover fresh sign, then remain on the trail until they sight the nomad herd, which often numbers as many as 25 or more animals.

Cats are usually hunted with dogs, and frequently one of the smaller varieties of wildcats is treed and killed

when hunting jaguars. The more intrepid native guides hunt the big cats at night, with calls made from gourds. They also will answer a dying-rabbit predator call.

Deer hunting, Mexican style, is similar to deer hunting in the States. They are killed in drives, off stands, or by still-hunting through the jungle growths.

Other game possibilities run the gamut from topnotch bird shooting for royal jungle pheasant and *chacalaca*, to big-game hunting for alligator and giant Baird's tapir, to plinking for iguana lizards and *marta* (otter). The large lizards are particularly plentiful, and often they steal into Mexican villages to steal chickens. They offer grand shooting sport for the .22 enthusiast.

The royal jungle pheasant grows as large as an American wild turkey. Mostly they are stalked and shot from trees, since they seldom fly. The *chacalaca* resembles the grouse in a way, only it is smaller. It is a wing-shooter's delight, reacting much like the grouse in flight.

The particular game the hunter seeks depends on the particular area where he hunts, naturally. Southern Mexico is a vast, wild area and hunting varies with each individual region. Hunting seasons are (Continued on page 40)



Dangerous, elusive, the jaguar is usually hunted with dogs, can be tolled in at night with gourd game-calls like one guide uses (below).



Big lizards steal chickens, make fast-moving targets for plinkers.



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## WHY NOT TRY MEXICO?

(Continued from page 39)

dictated by weather. The rainy season comes during our American winter.

Paradoxically, some of the best hunting beckons during the rains. Travel is the foremost problem, since the grounds become soft and vehicles can't navigate. During this time of year, hunters travel along the rivers in boats. Otherwise, hunting is good throughout the year.

There is nothing easy about arranging a Mexican jungle safari. That is why so few American hunters have taken advantage of this game bonanza. For one, there is the language barrier. Unless the nonresident hunter has an interpreter, it is difficult to communicate with the natives. Another drawback is the shortage of guides. There are no established outfitters in Mexico, and few natives are qualified. Still a third major barrier is the problem of finding a place to hunt. Contrary to popular belief, Mexico is not a country of government land, where a man hunts where he pleases. It mostly is privately owned, and there is the problem of gaining permission to hunt. But for the man willing to wade through this seemingly endless tangle of red tape, the end result is a rare hunt in a wild and beautiful country.

Just as there are three barriers, there are three possible routes around them:

The best, solution to all the problems would be naturally, to hunt with a professional outfitter. But there are no established, advertised outfitters, and only a few American outfitter-guides know enough about Mexican hunting to make such an arrangement worthwhile. Try, if you can, to cross trails with a man who has had experience in Mexican hunting. He is your best chance of a successful hunt, since he will be able to advise you directly and specifically regarding locales, legal or other pitfalls, and help available.

Another possibility would be to make arrangements through some friend who resides in Mexico, allowing him to handle all details from that end. If you have such a friend or know someone who has an acquaintance in Mexico, then this offers a good route of planning. A "native" can accomplish more in a day than a foreigner could in two weeks.

The third choice, and probably the most logical from the average American hunter's viewpoint, is to handle all details yourself. There are several ways you can go about this. One is to drift into southern Mexico, locate an area to hunt, and then try to make arrangements for guides and supplies. Another is to visit an area one year, scouting and planning, with the thought of returning to hunt sometime in the future. This is by far the best route. It gives you a chance to look over the situation and plan your gear, guns, and timetable accordingly. For instance, weather and conditions vary with different areas. It would be hard to plan an extended junket into a region without first being familiar with the game available and the weather conditions. With this latter method, you can seek out a reliable guide and have him working on plans for the future hunt.

That's what we did when we planned our hunt, and it worked out wonderfully. We were after jaguar, of course, but didn't find

any of the elusive animals, so we concentrated on javelina and found them plentiful. The photographs accompanying this article were taken near Villa Hermosa, in the state of Chiapas, which borders on Guatemala.

To enter Mexico you need a gun permit, a hunting license, and a tourist pass. All are available at Mexican customs except the hunting license, which must be obtained in the particular state where you decide to hunt. Before a person can obtain a gun permit, he must show five copies of a letter from the sheriff of his county of residence, stating that the man entering Mexico is of good character and that he plans to enter Mexico only for hunting purposes. You must have also five passport-size photographs. To get a tourist pass, a person must show proof of U.S. citizenship (military service card, voting registration, or other of similar official nature). Also, you will need proof that you have been vaccinated for smallpox within the past three years. If not, you will be vaccinated by the American Health Service upon re-entering the United States.

The foreign hunter is limited to a maximum of four weapons. This includes any weapon except 7mm and .45 calibers. These are the government calibers and the revolu-



**USE THE HANDY CHRISTMAS  
GIFT ORDER FORM—  
SEE PAGE 66**

tion-wary Mexicans ban these particular cartridges and the weapons that use them from entering the country.

The best all-purpose weapon for this jungle hunting is a 12-gauge shotgun. In the dense vegetation, most shots will be purely a matter of reflex, offhand, with little time for deliberate aiming. Purvis said he recommended only two weapons for the prospective Mexican hunter—the 12-gauge shotgun and a .30-30 carbine. He said the .30-30 is good because it is a lightweight and fast-handling rifle. It is ample for most all of the wild game found in southern Mexico.

Any big-game hunting rifle is acceptable. Of all the game the hunter will encounter in the jungle, the jaguar is toughest to kill. It is a good idea to have a native guide backing you with the shotgun loaded with buckshot. A wounded jaguar is a vindictive animal, and in the dense jungle the only route to escape might be in the direction of the hunter. A scattergun comes in handy in such circumstances.

A non-resident hunter is limited to 100 rounds of ammunition for every gun he takes into the country. For the shotgun, Purvis recommends a variety of ammunition, ranging from No. 7½ shot down to the solid rifled ball. Buckshot and the solid ball are used in big-game hunting, the other sizes for various bird shooting.

All guns should be well protected against  
(Continued on page 42)





# A RACK YOU CAN BUILD

By FRED C. SCHWICARDI

Any length rifle or shotgun is easily accessible on this simple adjustable rack which matches any type of wall.

**ADAPTABLE TO MANY NEEDS, EASY TO BUILD, CHEAP.**

**THIS RACK BRINGS GUNS OUT OF HIDING INTO COMPACT WALL DISPLAY**

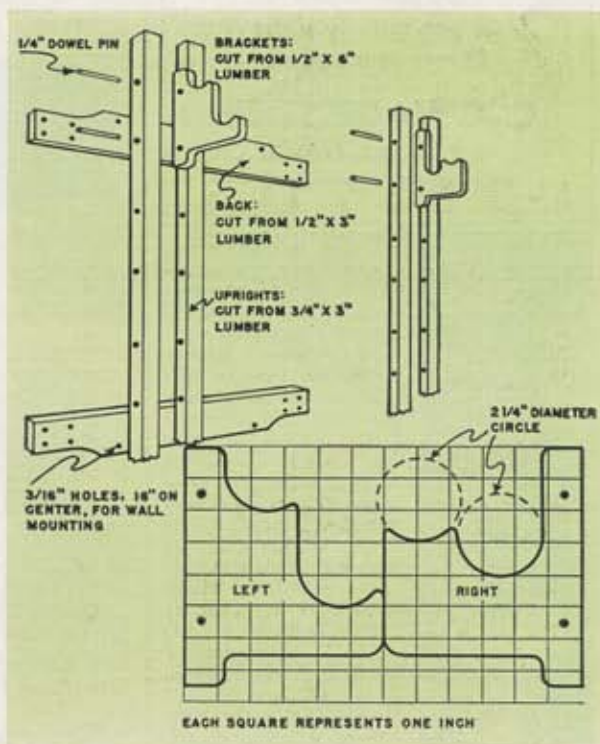
**G**UN RACKS are as individual and personal as their owners. They range from a couple of nails driven into the woodwork, to elaborate, carved, cabinet jobs that can cost a week's pay or more even to make, and a small fortune to buy.

This Rack owes its charm to the fact that it is simple to build, practical, and adaptable to the requirements of the builder. Whoever owns two or more guns and would like to display them in a minimum of wall space required should perk up his ears. With this rack, he can still keep Aunt Mame's picture in its place, or better yet, make room for those long-closeted trophies.

I built my own rack out of Philippine mahogany to match the panelling of the wall behind it. Walnut, oak or wormy chestnut would be equally effective. Pine, however, should be carefully selected. If this rack is built to accommodate eight or ten guns, the weight of them (a load of 70 plus pounds) could be more than a random stick of #1 pine board would take, and a fall that scratched or broke one of those hallowed bang-sticks would make you pretty sad about the few cents saved by purchasing soft wood. The hard wood pays off, too, in better appearance.

My rack handles ten guns conveniently in a wall space of 37½" top to bottom. The length of the standards or uprights could range from a giant floor-to-ceiling 7' (24 gun) job to a diminutive 2 gun carrier 7½" deep.

The only critical dimensions are (Continued on page 61)



Rack elements can be traced on 1-inch square paper pattern, jig sawed and drilled for dowels.



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(Continued from page 40)

moisture. Waterproof plastic bags are good. Removable scope sights are advised, since moisture condenses on the lens, making shooting difficult. Open and peep sights generally work best in the jungle. Bring a generous supply of gun oil and slick the weapons down after each day's hunting.

Probably the ideal Mexican safari arsenal would be a big-game rifle, a 12-gauge shotgun, and a .22 rimfire rifle. The rifle would be for general hunting, the shotgun for miscellaneous work and wing shooting, and the .22 for shooting iguana lizards and perched pheasants. The fourth weapon, if you wanted to carry one, might be a spare shotgun. It isn't necessary, however.

"If I were limited to one single weapon," added Purvis, "I most certainly would choose the shotgun. It will handle everything found in this part of Mexico."

The hunter planning on trying for jaguar in Mexico shouldn't plan on anything extra. When you hunt jaguar, you hunt nothing else. It is a long and drawn-out affair, often filled with disappointment. Purvis recommends that the hunter allot a certain portion of his time to hunting jaguars. If by that deadline he hasn't connected, he should

forget the elusive cat and concentrate on other jungle game.

The amount of game you are permitted to bring back into the United States depends on the particular state laws where you reside, plus existing federal laws. You can bring home the amount of game allowed under your state statutes.

Despite belief to the contrary, a hunt in Mexico is not a shoe-string affair. Purvis says the least a foreign hunter could scrape by on would be ten to twenty dollars a day. In many instances, the expense will be higher.

Although little is known about Mexican hunting and arrangements for a successful hunt are hard to come by, still it remains that this is one of the few remaining areas left in North America where hunting has not been commercially exploited. The man who tackles the difficult task of arranging a Mexican jungle safari himself will find countless obstacles in his path. At times he will wonder if it is worth it. But after the hunt he no longer will wonder. He will know that it has been one of the highlights of his hunting career—strange and different hunting in a strange and different kind of country.

## THE .257 CONDOR

(Continued from page 19)

initial velocity. After a number of experiments with a .30 caliber, the decision was made to go to a .25 caliber with a 160 grain bullet.

Calculation indicated a rifling pitch of 6½ inches would stabilize the bullet, but testing determined that better accuracy and velocity were achieved with a 7 inch pitch. Very short cases developed more pressure than a longer one of the same capacity. Efficiency increased as shoulder angles approached 30 degrees; but with the angle sharpened excessively it was found that combustion was increasingly more difficult to control, with

it was nose-diving beyond 300 yards.

With no practical way of reducing bore friction or centrifugal force, it seemed to me that the only way out lay in reducing the heat transfer which was melting bullet-cores. Copper jackets transmit heat rapidly, so I suggested the use of steel jackets. Atkinson & Marquart in Prescott, Arizona, made swaging dies and a supply of steel jacketed bullets using Shelby tubing. These bullets proved the theory, stopping disintegration, maintaining good trajectory, and giving sensational results on game. But best Shelby tubing available proved to be far from uni-



Condor bore after 1025 shots is eroded at case throat; heat-checked for 2".

form in hardness, so accuracy suffered, and the bare steel bullets were a bit rough on bores. One barrel washed out completely with 207 rounds.

We tried to get a bullet maker to furnish bullets jacketed with Trio-Metal, like the Government .30 M-2 Alternate bullet or the Norma match bullet. These steel jackets have a layer of Gilding Metal on either side, the inner layer protecting the drawing punches while the outer protects the bore. No bullet makers in this country were found willing to tackle the problem.

Once off the beaten track, the experimenter encounters many difficulties. With the required rapid-pitch rifling, at an effective velocity, the bullets disintegrated in the air. In the long bearing surface bullets, cores were melting through excessive bore friction. Centrifugal force from spin then exploded them. Tested was a two-diameter bullet, with little improvement; then solid copper bullets. Made to original dimensions, they weighed only 145 grains. Disintegration stopped, but the light bullet lost velocity so rapidly that

Amund Enger, President of Norma-Projektfabrik in Sweden then accepted the project. An order was placed with the Swedish firm thru E. H. Sheldon of Norma—Precision in South Lansing, New York, for 100,000 bullets, 12,000 cases, and 500 boxes of loaded cartridges. Test barrels and the





**DO YOUR CHRISTMAS  
SHOPPING FROM YOUR  
EASY CHAIR—  
SEE PAGE 66**

chamber reamers for making more barrels and a pressure gun barrel were shipped to Sweden. Norma finally solved the problem in drawing the long 160 grain steel bullet cups; then speedily filled the contract.

Swedish powders proved useable, and pressure and velocity tests showed that the American powders best adapted to the new cartridge are IMR #4350, IMR #4831, H-570, and Machine Gun powder.

Erosion being still a problem, tests were made on barrel steels by George Hageman, well known California Bench Rest Shooter. Groups were fired within time limits, so that the barrels would heat up, approximating actual use. It was found that the usual SAE #4140 Chrome-Molybdenum barrel would wash out with 300 shots. Timken barrel steel then was tried. With a normal cartridge such as the .30-'06, this has given much the same useful life as SAE #4140 steel; while under conditions of high erosion, it was fired with 1000 cartridges of .257 Condor caliber. Then an additional 25 cartridges were fired on a target, to give a minute-of-angle group. This barrel was then cut for inspection, revealing an advance of the forcing cone or "lead" plus considerable heat-checking, but no major gas wash-out in the rifling throat. Beyond 5" from the chamber, the rifling was in good condition.

Maintaining a land diameter of .250", various groove depths were tried. At .256", pressure ran high while velocity dropped. The .257" groove diameter proved useable; but a groove diameter of .258" showed a velocity gain of approximately 200 feet per second at the same pressure, with no loss of accuracy. At .259" groove diameter, pressure dropped more but groups started to enlarge.

Rifles were then made up for testing on game. One was taken to Alaska and the Yukon, where nine caribou were shot. With deer numerous on the Somavia Ranch, visiting friends tried the Condor on them during the California open season.

The wild burro, tough and lethargic, is difficult to convince that he is dead. He is unprotected in Arizona, so we tested the new rifle on this noblest varmint of them all. With a hit in other than a very vital spot, not even the .357 Magnum would give a quick kill. Feeling that hits directly on vital spots with any sizeable caliber would quickly drop an animal, we concentrated on making poor hits. Some few deer were hit thru the chest area, but a majority of all the game was deliberately paunch-shot or struck thru the hips. To the dismay of the guide, some of the caribou were paunched. Regardless of the location of any solid hit, or the size of the animal, the reaction was almost invariably the same. It would stop, appear dazed for an interval of fifteen or twenty seconds, back up a few steps, and then collapse.

We attribute this unusual reaction to the high rotational spin of the bullet. First,

there is almost inevitably a certain amount of yawing or cork-screwing when a very long bullet is spun fast, to create the effect of a larger-diameter bullet. The high rate of spin causes the particles of immediately displaced tissue to become secondary projectiles, to cause wide wound damage and to paralyze nerve centers. That one of the primary aims of deep penetration in a heavy animal was achieved is evidenced by the fact that few of these bullets have been recovered. As evidence of flat trajectory, when this rifle is sighted in at 200 yards, the point of impact is 1/2 inch above the point of aim at 100 yards. Sighted in for 300 yards, that point of impact is 2 inches high at 100 yards.

Chronograph results at 20 feet indicate accurate loads using various powders run a mean of approximately 2900 f.p.s. with the 160 grain Norma bullet. With 54.5 grains IMR #4350 and Winchester #120 primers, five shots bracketed 2902-2945 f.p.s. with an average velocity of 2918 f.p.s. Using IMR #4831, 57 grains, and Federal #210 primers, five shots averaged out 2919 f.p.s. with a velocity spread of 27 f.p.s. Using Remington #9 1/2 primers and 64 grains Machine Gun powder, velocity averaged 2844 f.p.s. and with the same load and Federal #215, the average velocity was a little hotter, 2893 f.p.s. A top load of 60 grains IMR #4350 backing the 120 grain Norma bullet using Federal 210s yielded an average velocity of 3394 f.p.s. with a low of 3375 and a high for five shots of 3436 f.p.s.

The .257 Condor is a rifle for use on the heaviest American game, particularly at the longer ranges. It isn't primarily a varmint rifle, altho it shows high velocity with a 120 grain bullet, while retaining good accuracy. With either bullet, recoil is light, about 15 foot pounds with the heaviest loading and the 160 grain bullet in a seven pound rifle.

"Condor" is copyrighted, and may be used only under license. Patents have been applied for on the cartridge, with the claims based on the principle of the high rotational spin of the bullet giving aerodynamic lift, to contribute to the flat trajectory. American and Canadian rights to the Condor have been retained by Dr. Somavia. Other foreign rights have been assigned to A/B Norma Projektilfabrik. National U. S. distributor is Fred F. Wells, 514 West Gurley Street, Prescott, Arizona. He will license shops to build the Condor and use the name. Some riflebuilders already licensed are Adobe Walls Gun Shop, 2411 Wilshire Blvd., Santa Monica, Cal., and Key-Hole Sporting Goods, 11 East Gabilan Street, Salinas, Cal.

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## FROM ENFIELD TO SPORTER

(Continued from page 37)

three boxes of shells of different makes and make your reamer from the largest shell you can find out of 40 or 60 specimens. You will be surprised to find that none of the makers seem to agree on just what are the proper dimensions. Some of them vary quite a bit on total length, so watch that point. Make your reamer either five or seven fluted, never an even number, since an even number of flutes has a tendency to cut your chamber out of round. Incidentally, don't try the heat treating yourself unless you have the proper facilities. All gun bugs should "have a friend who works" in one of the larger plants, and who knows what he is doing, but don't forget to tell him what steel you have used. If you are friendless, your telephone book will put you in touch with "heat treating" firms or a local steel yard will advise you.

After you have made your reamer, set your barrel up in the lathe. Again, you have two choices. You can either remove the barrel from the receiver, or leave it on. I've done it both ways, but if you leave the receiver on, you will have to thread the head end of the reamer to take an extension. About ⅜" diameter is right for the extension, and sufficiently long to clear the tang. Make sure everything is absolutely centered before inserting the reamer in the barrel. Set your lathe at a slow speed and use a good cutting oil, lots of it, running the reamer in a short distance. Then back it out and remove the cuttings before inserting it again. Continue with this until the belt on the reamer has entered about three-quarter of its length in the barrel. From here on it is much safer to finish the chambering by hand since your head spacing is rather critical. Remove the barrel from the lathe and clean it out. Screw on the receiver if you had removed it, and drop in the shell you used for a reamer pattern. Then insert the stripped bolt and note how nearly it closes; that is, with the bolt handle right down. It shouldn't close yet, so remove the barrel and continue with the reamer, holding the barrel in the vise—and don't forget the oil.

At this point you are very near to complete chambering, so go carefully until the bolt will just go down to its completely closed position. Then put the barrel back in the lathe and give the chamber its final polishing. Use very fine emery cloth wound on a small steel rod with a saw cut down its length for about 1½ inches. This cut is simply a means of holding the emery cloth from slipping off the rod. Just insert the strip of cloth in the cut and wind it around the rod, leaving about ¼" extending beyond the end of the rod.

While you are working on the barrel, it is a good time to remove the old military front sight, and to cut your barrel to whatever length you desire. I suggest cutting it not shorter than 24" unless you intend installing a muzzle brake. Then cut it to about 22½", since the length of the brake will increase the total length about 2½", depending on the make. These brakes serve a useful purpose by cutting down recoil and muzzle blast.

Now make a ramp for your front sight, about 3" long by ⅜" wide and ⅜" high. I make mine out of ordinary ⅜" key stock. Leave it flat on the bottom and file a flat on the barrel to fit and soft solder it in. Don't



worry about that soft soldering. If properly done, the sight will stay put. Stipple the sloping ramp by using a prick punch and a light hammer, putting a multitude of tiny holes in the surface. This is a most effective way of breaking up light reflection.

Now let's take a look at those two big ears on the receiver, that protect the rear sight. Pretty awful, aren't they? Well, we haven't a surface grinder, so we'll cut them off with a hack saw using the high-speed type of blade—you won't get very far with the cheap blade for these receivers are plenty hard. After you have cut them off, round off the corners with a good file. If you plan on mounting a scope on your rifle leave the top perfectly flat and exactly the same height as the forward receiver ring. If you don't want a scope, you can mount an aperture sight on the right hand side. I have found the Lyman 57 S.M.E. close to the proper shape on the base. Slight alteration may be necessary.

Some scope makers do not recommend mounting scopes on receivers which have oblong holes milled in the top of the rear receiver ring. This seems to me completely ridiculous, since these holes can be readily plugged with a properly shaped steel plug, lightly driven and with 2 1/8" holes drilled horizontally through the receiver and plug. Then drive two slightly tapered pins through these holes. Then file the whole surface down smooth, and you'll have a plug that the devil himself won't loosen. In addition, the small hole already drilled and tapped in the top, that held the original sight spring in place, is exactly centered. It is also the proper size (6 x 48) for the screws used in scope base mounting.

Now let's have a look at the floor plate and trigger guard. The forward end should be straightened out if you don't want an unsightly dip in your new stock. Cut that dip off with a hack saw just in front of the floor plate and file the edge to a slight V, likewise the short piece of 1/4" x 1" steel that you have selected for the extension.

The V on the ends of the pieces are there for your garage man to have a small trough for the weld bead. Fill it up on both sides with weld. Overall length should be about the same as original. Position the hole in the welded-on piece for the forward guard screw, and drill, using the old size as a guide. Then file to shape.

Shaping a stock is a project in itself. You can practically write your own ticket in that respect. I would suggest that a semi-inletted and rough-turned blank of a good grade be purchased, since the .300 Magnum has some recoil. The cheaper grades are fairly open grain, and do not possess the strength of the more dense blanks. Use an old coal oil lamp, with the chimney off, to blacken your action and barrel. With your stock in the vise, set the receiver and barrel in the rough inletting and note where it touches; then cut a small amount of wood away at these points, put it back in and try again. Some stocks require very little finishing to get a good fit, so go slow. For finishing the inletting, it is surprising what one can do with an absolute minimum of wood working tools. Use care and go slow, it will pay off. A good quality recoil pad should be installed, if you are recoil conscious. As I said before, the .300 Magnum has a bit of recoil. If you decide to checker the grip and forearm, do a bit of practicing on odd pieces of wood, flat and

curved, before you start on the finished stock. If you want to dress up your stock, you can add a bakelite fore-end tip, either the square type or slanted. These can be purchased from any gun supply house. Make sure you get a white insert for both tips and grip cap, as it adds to the appearance. The slanted type give a more racy appearance, but are more difficult to fit closely.

For finishing the stock, you have several choices. In general, oil finishes have a tendency to darken down over the years, so if your wood has a fairly decent figure I would suggest a plastic varnish. I have used this with success over quite a number of years. It is sold under the trade name of Almatex and if you don't like the high polish it leaves it can be rubbed down with fine steel wool or powdered pumice. (In the USA, a DuPont lacquer will work well.)

Next step is rebluing the metal parts of your gun. Most home workshops have a small buffing head, so get a couple of buffing wheels made from sisal, the same stuff that is used in making rope, and go at it, using buffing compound. I use what is known as SS 75 or 100, which indicates the grit. The sisal buff will do the job much faster than a cotton wheel. You can finish off with the cotton wheel if you wish, which will give a higher lustre.

Now make a tank 5" x 5" x 36" or 38" long. If you are only going to do this one gun, don't go to any great expense. It can be made from galvanized sheeting. Have the corners brazed. *Don't solder them*, as the bluing solution will eat out the solder in no time, and you will have an awful mess on your hands.

I use a three burner Coleman stove for supplying the heat, which must be operated at about 280-285 degrees.

Buy 15 pounds of bluing solution. There are several makes on the market. I use what is known as Houghto-black 15. The US "Blu-

Blak" is good. Put this in your tank, add a gallon and a half of water and light your stove. (With Blu-Blak, follow the directions.) An ordinary candy thermometer will give you the correct temperature. Snap the clip over the edge of the tank with the business end in the solution. While you are waiting for the solution to come up to 280°, run a short length of stove pipe wire through your barrel, allowing enough to hang onto at both ends. Also put a wire on the floor plate and trigger guard at both ends, and all other metal parts that you have polished.

When your temperature shows 280°, put all the parts in the solution. Don't splash it on your clothes, and wear a pair of rubber gloves—this stuff is potent. Leave the parts in about ten minutes, watching the temperature. Don't let it get much over 285° since temperature control is half the battle.

Now take the pieces out, and immerse in cold water. Take a look at them, you'll notice some places that haven't blued. That is because there was a bit of oil or other fouling at that spot. Go over all the pieces with the finest steel wool you can buy, giving them a good rub down. Put them back in again and leave for about five minutes. By this time you should have a deep, even blue over everything. If not, repeat the process except after the last immersion wash the pieces down with a cloth, not steel wool, and pour boiling water over all the pieces to kill what remains of the bluing salts. Now soak everything with a good light oil, and take a look at your handiwork. If you have done your polishing well you should have a good finish. Remember, the higher the polish the better will be your finish job.

Bear in mind all of the foregoing is written on the basis of a "do it yourself" man. Much more could be written in detail. But if you, like most of us, like to find out for yourself, go to it. You'll have a wonderful time, and a powerful sporter built the way you want it.

## HANDLOADING TOOLS and COMPONENTS

(See also pages 14, 46, 47)

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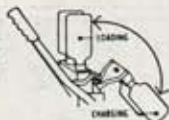




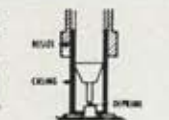
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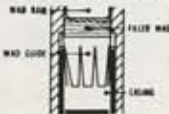
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## HANDLOADING BENCH

(Continued from page 14)

are accurate. Sierra has announced a new 170 gr. that will probably be popular. With 150 gr. pills, top charges will be around 34 grains Hi-Vel. No. 2, a good powder but it doesn't meter well, which makes weighing charges important. Other top charges are 37 grs. 4064 for about 2400 fps; 28 grs. 4198 for 2350 fps; 33.5 grs. 3031, and some lots of 4895 that allow up to 37 or 38 grains for about the same velocity. Cut these charges 2 grains or so and work up. Norma's 170-grain pill is real good with 28 grains 4198, and you can run it .5 grain more or 2 full grains less, to find best accuracy.

Your rifle may never give you minute of angle groups, but the cartridge handles a very large variety of powders. Just take time to find a good charge. If you do not get groups that exceed factory accuracy with one powder and three charges, in one grain steps, change powders and try again. Don't get powder-happy with rifles made for 40,000 psi pressure, and especially with fast burning propellants. Save your targets made with your selected loads to compare with cast pills.

Gas checked cast pills give better accuracy and velocity, generally with a hard alloy. At under 1500 fps or so, the gas check can be omitted for economy plinking. With scrap metal and salvage powders, such as sold by Hodgdon, the cost is nearly nothing, but they teach gun handling. You may never shuck lead out as fast as Lucas McCain, "The Rifleman" TV series fast gun; but you'll learn to shuck lead out faster than many people can count the shots, with good enough accuracy to bust running jackrabbits. What more do you want?

Did you ever watch a gal use 10 fingers to make a typewriter chatter like a Tommy gun? A rank novice can't peck out a page in 3 hours, using one slow but sure finger. The same thing applies to gun handling. All you need to master it is practice, and a gun is easier and a whale of a lot more fun than a typewriter. Lads who bust running jacks will amaze their friends, and they won't have any difficulty turning deer heels over head.

Drag out your discarded old .32/20 mould, and try 12 to 7 grains Unique with 90 to 115-grain castings for short range plinking. 10 grains is a good starting charge. In working down minimum loads for GUNS (Nov. 1956 issue) I found 6 grs. Unique with a 115 gr. pill to be a minimum. If you have that issue, it has some good dope on low loads for a number of calibers, all worked down, rather than up. (No copies available at GUNS' office—sorry, Ed.) With such low loading density, the barrel should be elevated before each shot to position the powder for uniform ignition, always a problem with minimum loads.

You can use pointed bullets cast for other .30s by facing off the points with the Forster Nose Trimmer used in a Forster Case Trimmer, that also uses their Hollow Point Ac-

cessory. When 150 to 170 gr. cast pills are hollow pointed, gas checked, and driven at over 2,000 fps, they are suitable for white-tails at close range. When cast hard, they are more apt to break up than to give classic expansion like soft core jacketed bullets. Jacketed pills can be hollow pointed also, and at around factory velocity they are real buck busters.

Lyman's No. 311291 is a good number. Accuracy is sustained or generally improved when it's hollow pointed and, of course, shocking power is greatly increased. The best hot load I've found with it is 32.5 grains 3031 ignited by CCI primers. Bullets were cast with Illinois Bullet Alloy No. 7, a hard rifle mix with a Brinnell hardness of 18. Lyman gas checks were used, and the case mouth given a moderate crimp, necessary with tubular magazines. Groups from two '94s and a Savage 340 were as small as 3" at 100 yards. Velocity exceeds factory stuff. Velocity and pressure run high, and it should not be used in old, loose-jointed guns. It's impossible to list safe, accurate, cast



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SEE PAGE 66**

loads for all rifles with various components. Always work-up the top stuff.

The IBA No. 7 metal is supplied to dealers by Division Lead Co., Summit, Illinois, one of the few firms to make a scientific study of alloys for better bullets. Many dealers stock their rifle and pistol alloys in convenient 14" lengths of extruded wire, dandy for casting and uniform in quality. If not available locally you can order from Gil Hebard Guns, Knoxville, Illinois, at 40c per pound, plus postage. (You'll also like Gil's 50c catalog-handbook for pistol shooters and reloaders, listing most everything in that line, with good articles on pistol shooting, slanted to target shooters.)

Some shooters get good results with new linotype metal cast "as is." A mix I like better is 50 per cent linotype metal and 50 per cent of a 5 per cent tin-lead alloy, the extra tin making it flow better for casting. This may vary from batch, as type metal is

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less uniform than a good commercial bullet mix. I don't go along with Lyman's .311" sizing diameter. Dies for the excellent SAECO Lubri-Sizer are supplied in .3080", .3090", .3100" and .3105". The .3090" seems to be about right for all standard .30 caliber rifles, and you seldom need to go .001" either way unless your bore is extra tight or loose. Castings should be within .002" of sizing diameter, certainly no larger. Difficult case extraction is a definite indication of high pressure. Back up on the charge.

The Lyman bullet we were discussing (before I got off the subject), works well with around 10 grains Unique at about 1600 fps. If this doesn't shoot well, vary the charge one grain, or even two, up or down. A good jackrabbit load is 25 or sometimes 26 grains 4198, for over 2000 fps. You might work up to as much as 28 grains without loss of accuracy if bullets are hard, gas checked, and sized not over .3090.

Rifles for the .30 Remington, the rimless equivalent of the .30-30, will take identical loads. The Remington number is almost as forgotten as Bridey Murphy, whoever she was. Their Model 8 autoloader might have been as popular as the '94s except it balanced like a grubbing hoe. Their bolt actions were not too popular, because the .30-30 clan are not bolt action fans.

Winchester's ancient creation has a past. It also has a future, and will be around a long, long time. You'll hear many tales of both lousy and superb .30-30 performance, many that are as false as falsies. Several novice hunters told me they bagged deer up to 500 yards. That nice round figure was probably created in their imagination, that was over stimulated by the thrill of a kill. One honest old-timer boasting about making the longest deer kill of his life; said, "The critter was nearly 75 steps away. I took the long shot because I needed meat and couldn't get closer." His open sighted '94 served him well because he got close enough to put slugs where they were effective. He wasn't a good shooter, but was a good hunter who knew his limitations and felt that goofing a shot was a crime.

The handy-dandy carbines are as much at home in a car or pickup as on a saddle. With loads in their pressure range they are as safe as strong bolt actions. Let's hope Marlin and Winchester wake up to the fact that their good carbines are good for plinking, as well as the deer hunting they keep yapping about. After all, guns do what you can make 'em do, no more and no less!

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## GRAND CROWNS NEW GREATS

(Continued from page 18)

American handicap and 100 in doubles.

Vic Reinders, the chemistry professor from the University of Wisconsin, won the men's all-round with a 390. He also won the men's doubles with Mrs. Jarvis taking the women's. But, like all Grand Americans, the stars got only part of the spotlight. On the days of the handicap, again, two unknowns rose from trapshooting non-entities to fame.

Big Clyde Bailey, a farmer from Oquawka, Ill., won the most coveted title of all, the Grand American Handicap. Shooting from the 21½ yard line he broke 99, and then won a shootoff from a retired Omaha, Neb., businessman, Harold Lippold. The 200-pound Bailey plans on using his \$6500 winnings for improvements on his 800-acre farm.

Richard Krohn, a young man of 29 with a beard, took the preliminary handicap with a 99 from the 19. It was his first trip to the Grand. A resident of Harvard, Ill., Krohn was sporting the beard to help celebrate a local centennial. He also won around \$6500 as his 99 was the highest score of the preliminary day.

Making history, also, was the 60th Grand itself. It was the grandest of all. In the preliminary handicap 2085 shooters took part, the first time more than 2000 had fired in the prelims. Then, in the Grand, 2392 shooters walked the trapline—also a new record. And, at Grand's end, trapshooters from all over the nation wondered, as they had for 60 Grands past—who will win at next year's 61st?

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## "TRAINFIRE" FOR KIDS

(Continued from page 32)

yards or a bit over. For Junior Trainfire, use the largest aperture the sight provides.

To initiate the littles ones, kneel, or sit on the ground, and take the little guy "in your lap," holding the rifle with his (or her) left hand in yours. Your job is to point the muzzle so that the bullet surely hits that old bucket 12 or 15 feet distant. After the boy or girl punctures that bucket a few times, introduce him or her to the bench rest. Have a pad of some sort for the elbows. After a sketchy naming of the parts of the rifle and explanation of safe handling, you're set for the first go-round.

STAGE I. Targets, half-gallon juice cans at 20 feet.

Before firing starts, explain the deep secret of the aperture rear sight. The secret is that you pay no attention to the peephole itself; just look through it and hold the front sight on the target. The eye, if let alone, will do all the centering needed. This in itself is a fascinating mystery to most young shooters.

If no bullet holes appear, move the can in closer. Start with one can; then, when the shots start to score, set several in a row, to be hit in rotation. Patience does it; don't keep at it too long at one time. Kids tire easily, and lose interest. At the first sign of fidgets, send them off to other games.

Explain that the secret of trigger squeeze is to press, not too hard, on the trigger as the front sight hesitates on the target. Next time it hesitates (and you should explain that no human can hold it perfectly still), press again. To help get the idea over, place your finger on the child's trigger finger and

press when the time is right. Usually after two or three such shots, the idea of press-hold-and press again will be understood. Meantime, you hold the box of Shorts, and you do the loading. Go slow but sure on these large cans.

Three hits with five shots qualifies for Stage II.

STAGE II. Targets, No. 2 1/2 tomato cans, water filled, at 20 feet.

(The surprise starts here; even the .22 Short will make these cans spout when hit. The .22 Long Rifle cartridge produces a finer geyser.) To start, set up 3 or 5 cans at 20 feet. Watch sighting and trigger squeeze. Shoot until Dan'l or Diana can bust 3 out of 5 or better; then move the cans to 25 feet. When 3 out of 5 hits are scored here, move cans to 30 feet. When the youngster can consistently get his 3 out of 5 or better at 30 feet, he is ready for Stage III. (All this shooting must be from the bench rest regardless what the TV hero does. Stick to it!)

STAGE III. Targets, condensed milk cans, water filled.

Start at 25 feet for the 7 year old guys and gals. Those with good coordination will gallop through these early stages; but the little jaspers who have little or no innate coordination will profit most, as rifle shooting is unbeatable for developing mental and physical coordination.

As soon as the child can make 4 hits out of 5 shots consistently, move the cans out to 30 feet. When he can do it at 30 feet, move cans to 35. When he qualifies at 35, 3 hits or better out of 5 shots repeatedly, he is ready for Stage IV.

The time it takes to get this far depends on how keen you and the kids have been. Weather or other activities may have caused you to cut down on the shooting—but don't give it up. It's important, believe me. And smacking cans that explode and leap high in the air is fun. Kids love it.

STAGE IV. Targets, small juice cans, water filled, at 30 feet.

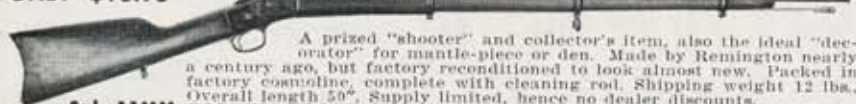
Here, trigger squeeze and sighting is put to test. See firing is still from the bench rest. These little cans go "high, wide, and handsome" when hit especially with Long Rifle cartridges. Start with 3 to 5 cans, and fire at them in rotation. Keep check on trigger squeeze and sight picture. With 3 out of 5 hits or better, move the cans out to 35 feet. When they qualify at 35 feet, move to 40, then to 45, and even to 50 feet for the teenagers. Qualifying on these small cans at 40 or 45 feet opens the door for Stage V. STAGE V. Targets, No. 2 1/2 tomato, condensed milk, or small juice cans. Object: Handling rifle safely and efficiently in the field.

Phase 1: Standing. Three No. 2 1/2 tomato cans, water filled.

Actually, the child has, up to now, been using the standing or offhand hold from a sitting, bench rest position. He will now start firing without the rest, standing, flat on ground, heels about 6" apart, head up, back straight, left elbow down under rifle, with the rifle across the palm of the left hand, fingers crossed loosely, right elbow about shoulder height. Set cans zig-zagged at 30-35-40 feet, with hill or similar ample backdrop. Fire slowly. Repeat until 3 hits out of 3 shots is easy; then reset cans at 35-40-45 feet and repeat until 4 hits out of 5 shots is easy. Follow standing practice

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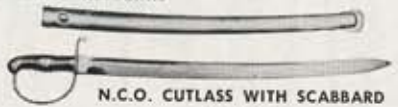
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with 12 or 15 shots at small juice cans from the bench as a refresher for trigger squeeze and sight picture, aiming carefully.

**Phase 2: Standing.** Five No. 2½ tomato cans, water filled.

Scatter cans approximately 25-30-35-40-45 feet from the firing line. Shooter starts from 10 feet back of firing line. Give him 5 cartridges—in magazine or carried. On Command, he loads and closes bolt. On "Advance," he walks to firing line and fires one shot at each can, opens bolt, and walks to starting line. Repeat until he can bust 3 cans or better out of 5 shots with confidence.

**Phase 3: Kneeling.** Five condensed milk cans, water filled, scattered approximately 30-35-40-45-35 feet from firing line.

To kneel, half-face to right, drop to right knee with right foot extended back, instead on ground. Sit on heel. (Or right foot turned with outside on ground; sit on inside of foot.) Left knee points at target, with left elbow resting on inside of knee an inch or two above elbow joint; left shin about perpendicular. Before any actual firing, practice dropping to kneeling from standing with open rifle.

Ready on the starting line, bolt open, Billy is issued 5 cartridges which he places in magazine or holds as in Phase 2. On command "Load," he closes bolt; at "Advance," he walks briskly to the firing line, drops to kneeling, and starts firing. Repeat this until he can bust 3 cans or better out of 5 shots kneeling.

Alternate with standing practice as given in Phase 2, using tomato size cans. Do this for the simple reason that it takes at least four times as much practice for standing as for kneeling, and six times as much for standing as for sitting.

**Phase 4: Sitting.** Five water-filled small juice cans placed approximately 30-35-35-40-45 feet from the firing line, well scattered.

Sitting is the most useful of the four firing positions. Half-face to the right and sit down, breaking the fall with the right hand, rifle in left. Feet extended, 12 or 15 inches apart, knees up high enough so elbows and forearms rest inside the knees just below the knee joint. With rifle in hands as for standing, muzzle should point at target easily without too much twisting of body and arms. Pivot the child on his seat until the gun points right. Practice this with open rifle before firing.

Fire first strings sitting on the firing line, issuing 5 cartridges for each string. As soon as child can make 3 hits or better out of 5 shots consistently, have him walk from the starting line as in Phase 3, sit down, and fire five, as with kneeling.

When Davey and Annie can change positions safely and quickly, start all firing runs at the starting line, with 5 cartridges, and, on "Advance," jog to the firing line, drop to sitting, and fire the string. When they can bust 4 cans out of 5 shots fired, they will be shooting far, far better than the average "natural born American rifleman!" Don't forget to hold a refresher session now and then, off the bench rest and from standing. Davey and Annie are now riflemen in their own right, and all set for Stage VI.

**STAGE VI.** For more realistic firing that will develop self confidence and safe, smooth handling of the rifle in all positions, try these—provided you can pick a place where ample backstops guarantee against danger from high or ricocheting shots:

Fire from standing, kneeling, or sitting, at cans hung from three limbs or overhead wire at 45 and 50 feet, as cans swing in wind or are swung by strings by protected operator.

Fire at condensed milk size cans, offhand, floated in fairly fast-flowing water. Here the shooter must reload safely and quickly to get a second shot before the can sinks. Watch trigger squeeze.

Fire at old buckets and large (2 or 3 gallon) cans rolled down a rather steep incline, shooting from 40 to 45 feet, or at a hoop 15 to 18 inches in diameter with paper stretched across opening, from 50 to 60 feet.

**The Wildcat Hunt.** A good spot for this is a medium-size gulch or ravine with bushes and smaller trees on the slopes. A clump of not-too thick bushes, or an area well-grown with weeds is very satisfactory.

While the candidate covers his eyes, 6 or 8 various sized cans are hidden at intervals on either side of an imaginary center line. Put cans on the ground or in the bushes and or on low tree limbs. Be sure of a safe back-ground.

Issue one cartridge for each can hidden. On command, shooter loads and walks briskly into the bushes, looking for targets. As he hears the first can, you yell: "Look out!" Shooter fire as quickly as he spots can, then immediately reloads. As he hears each can, the same excited voice warns of danger or game. Then, as he approaches the last can, you yell, "Wildcat!" Count the hits, and make it a competition. By daubing the bullet holes with paint, the cans can be used several times. The little guys never get enough of this sort of game. You can think up many other such rifle games that may be better fitted to your immediate situation.

Even indoors, a surprise-fire plan of sorts can be worked out. For instance: using the longest range available, (50 feet if possible) rig several 5" x 7" wood blocks on screw-eye hinges attached to a 2 x 6 plank for a base. Use strings to raise the blocks, rubber bands to yank them down. On these blocks, paste neutral color squares, triangles (not circles), figures of squirrels, crows etc., all with no definite aiming point. Alternate the three firing positions. Fire on appearance of target and before the block falls. For single shot rifles, use a loading block fastened to the rifle just ahead of closed bolt handle. Various sized figures simulate shorter and longer distances.

Training as prescribed in Army's "Train-fire I" and in "Junior Trainfire" develops ability to handle a rifle fast and with confidence. You'll have no firearms accidents among youngsters who have this training. And with this background, they are all the more likely to go for regular target shooting. See to it that, when they finish Junior Trainfire, they at least try splendid NRA Junior indoor and outdoor programs. Who knows—you may have a future National Champion in your household!

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## THE HOT NEW .22 JGR

(Continued from page 27)

may prove appealing in pistols such as the Llama "baby .45" using the locked breech model. The appearance of the JGR, tiny bottleneck reloadable centerfire, has even sparked the development of several all-new handguns to handle it, one a revolver, and at least one an automatic.

As it comes from Canada, the new baby is all wrapped up in a top notch deluxe quality imported baby mauser bolt repeating rifle, with deluxe stock, Monte Carlo cheekpiece, and including a turret type bench model reloading tool complete with press, full length resizer, powder measure, scale, and case trimmer—all for under \$80. The JGR burns clean, and 3.4 grains of standard cannister powder gives way over 2000 fps in a rifle, and over 1800 fps in a 6" barrel handgun. If you want your own gun converted, you can get the reloading kit for only \$15.95.

This tiny cartridge, now grown up into a "family" of rimmed and rimless rounds, plus two magnums (!) was the brain wave of Toronto gunsmith John Gower, JGR-Gun-sport, Ltd. John knew that a properly designed case, not an adaptation of an existing one, could surpass any known or practicable rimfire case, use a bullet efficient for chuck-busting, and still be small enough to fit inexpensive .22 rifles and handguns yet keep pressures low enough to leave a very wide margin of safety. The .22 JGR has performed far beyond his wildest hope.

The 5 grain "proof" loads mentioned above were fired four times with the same

case and no ill effects. As if this wasn't enough, we then cut the bolt handle (the locking surface) on a low priced .22 LR rifle, leaving only 1/32" of the original 1/4" thickness to hold the bolt in place. Successive firing indicated no cratered primers, no excess headspace, and no other evidence of damage to rifle and case. The success of these tests confirmed our belief that the strength of a center-fire case combined with the ultra small chamber dimensions (3/8" from flash hole to bullet) were the main contributing factors in the safety and efficiency of the .22 JGR.

The modern shoulder degree and case shape has everything to do with its amazing performance. John told me that the last change in case dimensions, to remove all taper from the case and leave a straight wall, proved to be the answer to his search.

The standard load will punch a 5/16" round hole through a 3/16" steel girder that is known to be harder than cold rolled steel.

In another test, we hammered a 40 grain jacketed bullet into the barrel slightly ahead of the chamber, and fed a loaded round in behind. We did this several times and the rifle fired normally without damage to itself or the cartridge case.

There was no test we could dream up that would enable us to blow anything apart or even weaken it. The last thing we could think of was to cut the bolt locking surface off completely and hold the bolt in place with one finger while firing. This appeared a bit risky and we expected it would create a mild sensation. Therefore, we fired a trial shot holding a weight at the back of the bolt. The weight remained in place so the finger was tried. The finger and bolt popped back only about 1/8th of an inch; otherwise the shot went off as if fired from an unaltered rifle.

Safety tests complete, we began velocity checks by cutting a rifle barrel up into chunks, starting at 22" and cutting back. The results were as follows with a 40 grain bullet and standard loads:

22"	18"	14"	10"
2130 fps	2085 fps	2060 fps	2020 fps
8"	6 1/2"	4 3/4"	4"
2000 fps	1900 fps	1760 fps	1630 fps

A good thing about this cartridge is that the barrel diameter has been left standard .223" (like the .22 long rifle), giving a greater sectional density and ballistic coefficient than the same weight bullet at .224" or .2245" diameter. That may cut no ice at the muzzle but really shows up at 150 yards, in sustained velocity and decreased trajectory. Further, due to its better sectional density, a .223 bullet can be started off faster without possibility of tumbling as its longer bearing surface stabilizes more easily.

John had been questioning gun enthusiasts for a long time to establish that there was a place for such a cartridge, and the timing was right for introduction. It became obvious that the new caliber should be a .22, since there are more .22 rifles and handguns than all other calibers combined, and the world can produce so much for so little in a .22. Meanwhile, thousands of wildcaters were busy outdoing and outclassing each other shooting little bullets out of huge cases, forgetting about the happy commer-

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SEE PAGE 66**

cial area down below and the "gaping hole" in energy from 149 ft. lbs. of the lowly .22 LR to 1140 ft. lbs. of the extremely efficient new .222 Remington. The .22 JGR was Canada's development to fill the gap.

After firing, the .22 JGR barrel looks as though it has been cleaned with a new patch, the direct result of complete powder burning. You can easily check this by placing a sheet of regular kitchen aluminum tin-foil over a pad on a block of wood, and firing into it at about 24 to 30 inches from the muzzle. This produces a very nice print for counting the unburned particles of powder and ascertaining its burn-waste ratio. The .22 JGR burns all but 10 to 20 particles out of over 5000, in a 22" rifle barrel or a 4" handgun.

In ballistics, the .22 JGR is breathing right down the neck of the old Hornet, yet achieves this with 1/4rd the powder and 1/2 the engine room.

The report is only 1/2 that of the most powerful rimfire .22's in a 6" barrel, as all the powder burns right in the chamber where it should.

As an added bonus this cartridge gets very friendly with manufacturers of .22 caliber rifles and handguns for three more reasons. It is the same as the .22 long rifle in length, rim size and bore diameter. It follows that simple conversions can be made to your .22 rifles and revolvers. Some clip magazines require no alteration at all.

We were fortunate that R. B. Sisk designed a new 40 grain of soft point jacketed and a 37 grain hollow point jacketed bullet in time for use in the .22 JGR. They fit this cartridge to a T, mushrooming nicely down to 1500 fps and below, gliding through the barrel without raising pressures because of their very thin jackets, and keeping accuracy high by their fairly stubby design.

The brand new Lyman mould #225107 in 34 grain hollow points and 38 grain solid are just the ticket for the .22 JGR if you are casting your own.

The turret reloading press we were using is a new one designed by John Gower and, because of the demand for the .22 JGR, is now in production in the JGR GunSport factory in Toronto. It is a very simple bench model. It has only one adjustment, for seating the bullet to 1" overall length; the adjusting screw having a dime slot as well as the "wear take up" tension screws.

One of the four turret positions is a case trimmer with automatic length control. The scale is adjustable and extremely accurate, sensitive to 1/50th of a grain. It acts as a powder scoop measure and fits the .22 JGR case exactly for dumping. Also supplied is a full length resizer. This complete outfit at \$15.95, together with the new cartridge which can do justice to a \$25.00 single shot or a \$100 sporter for the man who has everything, could easily start many shooters into the wonderful sport of do-it-yourself.

After 18 months of exhaustive tests in rifle barrels, we decided to chamber a 4" revolver and find out if the .22 JGR loses any speed because of the so called pressure loss at the gap between cylinder and barrel. At our Lab range in Toronto our little pet slipped through our chronograph at an astonishing 1705 fps.

For handguns, the .22 JGR has speed superiority over anything possible in a rimfire or a much longer centerfire, partly because the JGR is very short. The bullet is so near the back of the chamber when it starts accelerating, it gains nearly full speed in the first few inches of the barrel. The powder chamber is 3/4 as big in diameter as it is long (.28" diameter, .38" long) and the result speaks for itself in terms of complete combustion. You just don't get 305 foot pound energy in a 6" revolver or 400 foot pounds in a 22" rifle barrel with 3.4 grains of powder in any other cartridge, new or old. And as a centerfire, it will take pressures that a rimfire can't hold. Brass must be thin and soft in rimfire cases to crush

easily at the rim for positive ignition. Case failure in a hot rimfire can occur at this point, and a rimfire case has no inherent strength of its own at all, unlike the solid head centerfire.

Southern Ontario enjoys the finest ground hog shooting in North America, so naturally I strapped on my 4" revolver for a practical test of killing efficiency. The .22 JGR proved to be a very flat shooting number, and easy to hit with. It shows what it has out at the target, not by punishing the shooter's ears and hands. Considering the performance in a 4" revolver, you can imagine what this baby will do in a rifle with a scope on it.

The merits of this new round already appeal to several handgun and rifle manufacturers, and a major North American ammunition company is "marking time" on putting the ammo into full production, depending on the interest shown by shooters. But whatever happens, this baby bottleneck, reloadable and cheap to shoot, may be the most practical development in the centerfire field in many a year.

## HOLSTERS, CASES, CABINETS

(See also pages 13, 52, 53, 54)

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## TREE FARMS: NEW HOPE FOR HUNTERS

(Continued from page 26)



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**These Belts and Holsters have No Equal  
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Holsters are so constructed that the gun handle has ample clearance from the belt and the cylinder spins freely in the holster while drawing. Belts are shaped to make holsters "hang low," same as the ones with a long drop in the belt or long shanked holsters. Made from heavy single thickness best quality saddle leather. They fit extremely well and do not interfere with walking or sitting down, and above all have no equal for super-fast drawing.

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The Tree Farm Program in theory benefits the sportsman, but it's natural to ask, "What about 'No Trespass' signs?" Happily, the theory is proved by the practice. A recent survey by American Forest Products Industries helped answer the question. "More than 90 percent of the commercial timberlands owned by forest industries is now open to the public for recreation," says James C. McClellan, chief forester for AFPI, sponsor of the American Tree Farm System.

"This does not mean," adds McClellan, "that all of every certified Tree Farm can be opened to the public. There are silvicultural and fire hazard factors plus road maintenance problems that must be taken into account by the landowner."

But "Posted" lands are the exception to the rule. The survey showed that only 5.8 percent of the total area was closed to hunting. Add 1.9 percent in game refuges and that still leaves 92.3 percent of timberlands open to hunting in season. (Of the total, 96.3 percent is also open to fishing, giving anglers nearly 56,000 miles of lakes and streams in which to wet a fly.)

Some timber companies have constructed public parks with picnic tables, boat launching ramps, lavatories, overnight camping and other facilities. In a few places, a small service charge may be made. Some areas require permits for the major activities. Some employ professional recreational planners to achieve the greatest value for the public good. Some even post "Hunters Welcome" signs but others, for legal reasons, do not advertise. It would pay the sportsman to check with the owner of a Tree Farm to see just what requirements he may impose. But it's a nine out of ten chance that he will welcome the outdoorsman onto his land.

R. F. Bower, of Hammermill Paper Company's Woodlands Department, says, "All of Hammermill's timberland holdings in Pennsylvania and New York State are open to the public for all legal recreational uses, including hunting and fishing."

About 108,000 acres of A. J. Hodges Industries' timberland is open to public hunting. Charles H. Jeter, vice-president, adds, "Our park and garden area is also open to the public on a fee basis of \$1.50 for adults; children under twelve free. There is no hunting or fishing allowed in this area as the wildlife is on public exhibition, so to speak. The gardens are particularly extensive..."

The Edgewood Land and Logging Company has opened 62,000 acres in Calcasieu and Beauregard Parishes, Louisiana, to hunting, and fishing is invited in their stocked, artificial lakes. This company also has an extensive game restocking program using several upland bird species.

"With the exception of a few artificial ponds, all lakes and streams on the lands of the Coosa River Newsprint Company are open to the public for fishing..." says H. A. Dickson. And permission to hunt is granted under a permit system. "... fishing and other forms of outdoor recreation are permitted on all of the lakes and streams of Scott Paper Company lands," and Scott also leases family campsites. The Simpson Logging Company has long maintained a policy of welcoming sportsmen to hunt and fish on its lands and in its waters. The A.

DeWeese Lumber Company has never posted their lands against hunting, picnicking, fishing or any other form of legitimate recreation. The Champion Paper and Fiber Company's streams and lakes are open to free use by the public, provided that State game laws are strictly adhered to.

Rayonier Incorporated has done a great deal of work in providing recreational facilities on its managed woodlands in Florida, Georgia and Washington. Rayonier provides hunters with maps of the area during the hunting season.

It has always been the policy of Potlatch Forests, Inc. to make available to the general public the recreational facilities offered by their timberlands. They do make an exception of some private roads that are closed occasionally during the spring break-up and fall rainy season to prevent excessive damage to the roads. Urania Lumber Company has never restricted any of its 130,000 acres of forest lands and L. N. Dantzer Lumber Company has always allowed both hunting and fishing on its property.

For Pacific Northwest hunters, Weyerhaeuser Company is a leader in this public recreational use of company timber holdings. Kramer A. Adams, recreation specialist for the company, says that Weyerhaeuser has built 25 free public parks in western Oregon and Washington, permits free public hunting on about 90 percent of its tree farm land and allow free public fishing, camping and other recreational activities when fire hazard conditions permit. This company has constructed fish holding ponds in cooperation with state fisheries and has, generally, cooperated with state agencies and youth organizations in providing outdoor recreational opportunities.

There are thousands of others. Armstrong Forest Company has over 100,000 acres of woodlands open to public hunting, fishing, trapping and other recreational uses. The Northwest Paper Company stated in a paid advertisement, "Contrary to the belief generally held by sportsmen and advocates of public forest land ownership, virtually all private industrial forest lands in Minnesota have always been open to the public. The Northwest Paper Company welcomes hunters, berry pickers, fishermen, picnickers and other forest users." And they close with the universal request, "we ask only that visitors be careful with fire and help keep our forests green and clean."

"Welcome Sportsmen" and "Hunting Permitted" signs are going up all across the country, because considerate hunters are an asset to the timber grower. Drumstra's west Illinois farm has been safe from fire for the past three years, since he opened the land to hunting and briefed visitors with a few words on fire safety, although his county of Franklin has the worst record of burned acreage in the state. It's no easy job to patrol acres of woods, and hunters can spot fires and give the alarm. Unfortunately, the reverse is also true. Of 455 companies reporting in a recent survey, 207 cited troubles with recreation-seekers causing fires. Other complaints were garbage litter (bury it), shooting at signs (which no real gun bug will ever do), broken gates and locks, road damage, thievery, trespassing,



ingratitude (the owner likes a "thank you" even if the right to hunt is free), vandalism, endangering employees, slowing operations, and getting lost—in just about that order.

But true gun sportsmen will show their gratitude for this privilege that timber companies extend. Simply following the rules of good sportsmanship is the best rule, and the most serious thing of all in the forest is fire. Fire is the timberman's greatest enemy—but it can be the sportsman's greatest ally. The sportsman can spot beginning fires and generally help the timber company to keep a clean and healthy forest.

Eight months ago last May began a new program of public hunting, fishing and outdoor use of private lands, unique in many ways. Called FAIR—Federation And Industry Recreation—it is the plan under which the National Wildlife Federation will cooperate with industry in opening private lands to sportsmen. Over 400,000 acres of Olin Forest near Winnfield and Monroe in north central Louisiana are embraced in the first

project of the new FAIR program. Olin Mathieson (parent company of Winchester-Western, New Haven 4, Conn.) has a brochure describing recreational opportunities on its Forest Products Division timberlands. More hunting, safe hunting, free hunting is permitted—deer and wild turkey are prime "crops" in this huge twin-use Olin forest. Development in Olin Forests may include signs, maps for visitors, picnic and camping sites, boat launching ramps for the lakes in this tract, and other facilities for outdoor recreation. The initial FAIR program, according to James Ledbetter, president of the Louisiana Wildlife Federation, will be coordinated by a committee of members of the State's Wildlife Federation, Forestry Association, Forestry Commission, Wildlife and Fisheries Commission, and Olin Mathieson Chemical Corporation.

And you, too, may be surprised and pleased to find a hunting paradise just around the corner, at your nearest certified Tree Farm.

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## 3 GUNS FOR BIG GAME

(Continued from page 23)

produced ammunition, and factory-made rifles.

Another factor in the ideal rifle battery should be this: At least one of the cartridges chosen, in some combination of loadings, should produce at least semi-formal target accuracy. It should adequately take care of those increasing opportunities wherein the lay shooter will want to take on the local turkey-shoots and informal matches where match rifles are barred.

Another qualification, of growing importance as more and more husbands and wives, fathers and sons, learn to enjoy hunting together, is that one of the rifles chosen should be one with which the hunter can teach his son, daughter, or wife, one with which the wife or youngster can hunt successfully without having to pack too much weight or suffer too much recoil. Think carefully in making this solution; "family-style" hunting can add new facets to your hunting pleasure.

Last but by no means least in importance, all rifles of a good battery should be of "open end" potentialities. By that I mean that the smaller cartridge of the group should be able to take on, in a pinch or under an unexpected field opportunity, the species of game meant for the next larger cartridge-rifle. And similarly, the largest rifle-cartridge of the group should be sensible to use, if the occasion demanded, on the next smaller group-species. In short, all cartridges should reasonably overlap.

A final characteristic, not entirely necessary but mighty useful, is that all cartridges have similar velocities, so that the hunter can sight in at the same range, learn to hold over the same amount at intermediate ranges, retain the identical sight-picture, and learn but one set of field trajectories and range-estimation.

This, you will agree, adds up to a whopping order. But it can be done, and here are my candidates for the current, "ideal" three-gun battery:

First is the Winchester .243.

At first glance, choosing the .243 for our smallest pests and varmints may seem like a hummingbird-cannon combination. But under actual field ranges at which today's crows, chucks, coyotes, and bobcats are

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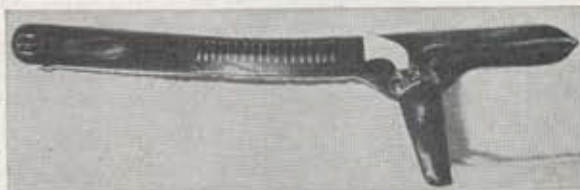
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shot, the .243 is not too large. With the .243's lighter bullets (still having exceptional sectional-densities, wind-bucking qualities, and sustained velocities), such species may be regularly taken at ranges where lesser cartridges would fall short, and where these wary creatures are. 300-yard shots, especially in the West's open country, are common. Bluntly, it's not that one needs a .243 bullet to kill a chuck; it's the fact that a .243 bullet will be there, whereas the shooter can't make a lesser bullet arrive there with the same precision and sufficient "oomph."

My personal experience in the open, broken, windy country of the West is that the .243 is not greatly excessive for pests and varmints, if the lighter bullets are used. Incidentally, one of my own pet loads for this purpose is 38 grains of #4895 powder, Winchester #120 primers, and Hornady's 70-grain spire-point bullets.

But this is primarily a game battery, and for the smaller species of big game the .243 has proven to be excellent when used at reasonable ranges. By that I mean ranges to 250 yards, using 100-grain bullets meant for game.

The first mule deer buck I ever killed with the .243 was a fair example of the outfit's performance. This cagey beast, having 15 points and 35½-inch spread, was bedded down in snow at 175 yards. A single jump in any direction would have put him out of sight into thick aspens. So I busted him "on the set," hitting him with a 100-grain bullet at the point of the shoulder as he quartered towards us. His head simply tipped over and he was completely paralyzed. He made no struggle whatever, his hoofs not even disturbing the snow. He was dead as a mackerel when we reached him.

The one fault I've found with the .243 on deer is that its bullets won't buck brush as well as some. That, for our purpose here, is a minor fault, to be corrected elsewhere in the battery.

But the .243 offers an additional bonus. It is, even in a featherweight rifle, one of the most accurate rifles commercially made. My own Featherweight Model 70 will print groups all day long well inside an inch, using another pet load consisting of 42 grains #4831 behind Hornady's 100-grain spire-point. Joyce Hornady writes me that, with the same bullet and a slightly heavier charge of the same powder, his own .243, which he'd considered to be "shot out," will group regularly far under an inch. With such loads, individually tuned to one's own rifle, the .243 becomes an effective informal target arm, and many a turkey-shoot in the West is being taken with it.

Lastly, and in the role of a rifle with which to teach the beginner, I might say that one of the best Stone Rams to come out of Canada's Muskwa area last year was taken by a 90-pound lady, using a .243. She was a real "beginner."

Next up in my battery comes a 7 mm Magnum.

Rifle enthusiasts and experimenters have long held that the 7 mm bullet, in weights around 160-grains, is ballistically ideal. Its virtues of exceptional sectional density, velocity-potential, coefficient of form, efficiency, and so forth need not be detailed here.

I recall a conversation with two other gunnuts way back in 1942. I was at the time using a standard 7 mm Mauser and we were arguing the possible "perfect" cartridge. One of the fellows held out for the .300 H&H; the other praised the inherent possibilities of the .280 Ross. I recall saying, "If ever a pointed bullet in 7 mm can be fired at over

3,000 fs, with a weight of nearly 170 grains, that would be my idea of the perfect game cartridge."

Today, we have it in at least four 7 mm Magnums, two of which are commercially made. Bullets are available in weights from 120 grains to 175 grains. But in my experience, the best bullet for this caliber is the 160-grain, which travels roughly 3100 fs in all these cartridges. The 160-grain bullet may be stepped up somewhat beyond that velocity, but in doing so, the shooter pays too dearly in recoil, barrel-life, and reduced accuracy.

This second candidate for the three-rifle battery is an almost ideal cartridge for those species of big-game which habitually must be taken at extreme ranges and in country devoid of stalking cover. Briefly, it is a beautiful outfit for shooting at trophy rams across great canyons and crags; at goats far up distant cliffs; for big, wily, buck antelope which stay at the upper periphery of their flat-country range and study the movements of the hunters with their keen "8-power eyes;" for trophy caribou over long ranges of flat muskeg; and for the trophy buck deer of the West. Instances of where this caliber shines are—my Dall Ram last year in Alaska, at well over 300 yards across a great uncrossable chasm; my wife's Barren Ground Caribou, which we stalked all day over muskeg; or my last year's 11-point muley buck, across a deep canyon in Wyoming, in the snow, at a full 300 yards.

On the "lighter" side, the 7 mm Magnum will account for deer in heavier brush than the .243 will take. It is too much for antelope, except that it will reach out where lesser cartridges will fail, and put the bullet where it counts.

For medium big-game like caribou, sheep, goats, black bear, it is about ideal when using the 160-grain bullets.

And for the really big ones, it overlaps the third and more powerful cartridge very well. I watched my partner, John Phillips, bust the biggest grizzly bear that came from Alaska's Slana River district in 1957 with his 7 mm Weatherby Magnum. One heart-shot, and bruin was dead almost as he hit the earth. Again, John took his 24-point bull moose with the same outfit, nearly as well.

The 7 mm Magnum is not the cartridge with which to do a lot of informal shooting, or target shooting, despite the fact that the cartridge is very accurate. It is, as any cartridge must be to do what it does, over bore-capacity. It may wear out a barrel in 4-5,000 rounds; I don't know. But that's more than ample life in this caliber for any hunter. Briefly, the 7 mm Magnum is the rifle for which one buys or cooks up an ideal game load, sights it in precisely each fall, and shoots mainly at game, taking those long-range trophies which other calibers won't.

Of the four available cartridges, my own preference is for the 7 x 61 Sharpe & Hart, in the Shultz & Larsen rifle, using either the Norma factory 160-grain boat-tail loads or the Nosler 160-grain Partitioned bullets, loaded to just over 3100 fs velocity.

I'm partial to the S&H because it's very accurate, pleasant to shoot, has good barrel-life in the Shultz & Larsen rifle, has an exceptionally strong action (4-lugs, in the same rifle), and factory ammunition is easily obtainable. Those hunters who own a Weatherby 7 mm Magnum have an equal cartridge. So do those who have a wildcat 7 mm Mag-

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num, if they do their own loading.

At this point, .270 and .280 Remington owners will rebel, will ask with good reason, "Why not include these calibers in this spot, in the three-rifle battery?"

My answer is that, for a different battery, such cartridges may well prove equally desirable, or even more so. But for the three-rifle, big-game battery, where each cartridge chosen must overlap well in both directions, I think my choice is better for the second or middle spot. The 7 mm Magnum, as a big-game cartridge, will do everything the .270 or .280 will; it will also do things these two great cartridges won't.

The third cartridge, meant for the really big stuff, is Winchester's new .338 Magnum. I tested this mighty new-comer in Alaska in 1958 on grizzly, moose, and caribou and later on bull elk in Wyoming—giving the new cartridge its first field-test on game, in its final commercial form. Two cartridges were furnished me for this test: the 200-grain soft-point, and the 250-grain Silvertip. After the sighting in and paper testing, I settled on the 200-grain exclusively, using it on all the above species. The rifle was a Model 70 Winchester.

Briefly, I believe that the new .338 Magnum is a close approach to the ideal cartridge for grizzly, polar bear, bull elk, trophy moose, and even brown bear. That 200-grain bullet at 3,000 fs velocity really bowls 'em over. The bullet's construction has a lot to do with

it. All recovered bullets had mushroomed perfectly, lost none of their weight, and had penetrated 23 inches of flesh and bone.

My conclusion is that the .338 Magnum will come to replace both the great .300 H&H and the equally great .375 H&H Magnums, for the biggest of our North American game. And I firmly believe that, for the "heavy" spot on the three-rifle battery, there is no better choice.

For purely game shooting, I'd also settle on but three cartridges for the three named rifles. I'd choose the 100-grain for the .243; the 160-grain for the 7 mm Magnum; and the 200-grain for the .338 Magnum.

As hinted before, one of the greatest values of these three cartridges is that they all travel from 3,000 to 3,100 fs. In the field, for all practical purposes, they may be sighted for the same range, will have the same practical trajectory, and may be used, in the excitement of game-shooting, without any thought of a change in hold.

So—there you have it: one man's choice for all North American big-game hunting, where the battery must be limited to just three guns.

With rifles, as with religion and women, every man is entitled to his preference. And certainly, in any choice, many a fine number must be eliminated. But where the choice must be restricted to only three, those named will, like a Bikini on a blonde, cover the subject yet make it interesting.

## DRESS RIGHT, SHOOT BETTER

(Continued from page 29)

of the shooting coat and glove, can be found in almost any home. This is primarily for men. There are suggestions in the latter part of the article for the girls.

Starting from the skin out, the shooter should wear comfortable underclothing with lots of room for freedom of movement. This item is of prime importance. Snug or ill-fitting clothes will bind and cramp in all positions. For trousers I recommend a comfortably loose pair of khakis. The heavy G. I. type will fit and wear the best, and can be obtained at any surplus store if the shooter doesn't already have some. Wear a G. I. web belt for the trousers as most leather belts will cut into the back and sides, especially in the sitting and kneeling positions.

Ordinary shirts of all types are not suitable, because there are no standard makes of shirts that I know of which allow enough freedom of movement in any shooting position. Ordinary shirts are usually too tight across the back and under the arms. The most successful type of shirt in use is the common athletic sweat shirt. These heavy cotton flannel sweat shirts are made with extra room under the arms and across the back to allow ease of movement in all types of sports. In addition, they are very comfortable to wear in both hot and cold weather. In hot weather the cotton flannel absorbs perspiration like a sponge and eliminates the common sticky clammy feeling along with the perspiration-soaked shooting jacket. I've worn a sweat shirt, shooting jacket, and cartridge belt in 85°-95° temperatures and felt almost as comfortable as I do when wearing my light summer suit. Of course, now that one manufacturer is making a lightweight summer model shooting jacket it should make hot weather shoot-

ing even more comfortable.

The most important single item in the shooter's uniform is the shooting jacket. It is the hardest item of all to have fit correctly. First of all, and I cannot over-emphasize this too greatly, try on a shooting jacket before buying one. This is a cardinal rule. A shooting jacket of the same size as your suit or overcoat will be too small in most every case. Shooting jackets are heavily reinforced and padded. This cuts down the effective size of the jacket by restricting movement, especially in the arms and across the back. Jackets should be one to two sizes larger than the suit coat size. To illustrate this point, in my own case my suit coat size is 40 and my shooting jacket size is 44.

Those people who find themselves with jackets that are too small and also those of us who are getting a little larger around the waist can do as a friend of mine has done: have the little woman sew a zipper on the edges of the lapel and take off the buttons. This will give the jacket an extra two inches around the waist and chest.

A good shooting glove is essential. As with the shooting jacket, try on as many as possible. There are many excellent shooting gloves on the market to choose from. I have found that in small bore shooting where the shooter stays in the prone position for long periods of time the tendency is towards a very heavily padded glove, whereas high power shooters, especially those that do a great deal of sustained fire, tend toward a thinner, lighter glove. Those shooters who fire under International Shooters' Union Rules are limited to the rules for the type of glove that can be worn.

Those who do a great deal of high power or iron sight small bore shooting should wear

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# SHOPPING



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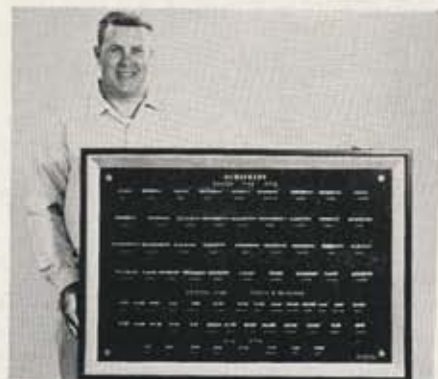


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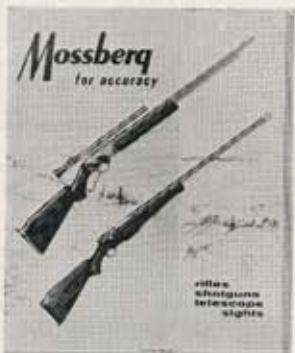
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## SHOP EQUIPMENT

(See also pages 7, 8, 9, 59)

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(Continued from page 55)

a good pair of shooting glasses. Both indoors and out, yellow lens glasses are the best by far. These yellow lenses not only cut out harmful ultra violet light on extremely bright days but, most important, they greatly increase the contrast of the sight and target on dull overcast days. The yellow lens produces the same effect as a yellow filter on a camera; i.e., cuts haze and increases contrast.

The glasses should be ground to your prescription or you will not realize their full value. In my own case, I have 20-20 vision in both eyes, but I have astigmatism which makes my sight picture slightly fuzzy and makes it essential that my glasses be corrected. To illustrate the advantages of yellow lenses, firing at 600 to 1000 yards with an M1 on an overcast day wearing either plain glasses or corrected plain glasses, my sight picture would become so uncertain that I would be forced to elevate my rear sight and use the bottom of the target frame for an aiming point. The yellow lenses have so greatly improved my sight picture under dull conditions that I have never had to resort to the above maneuver since I've started using them.

Last, but not least, glasses are a must for eye protection while shooting, especially for high power shooters in the event of a punctured primer. Small bore shooters would do well to use glasses, also. I know a friend of mine who was forced to stop shooting for an hour as the result of a pierced primer in his Mod. 52 Winchester which squirted gas into his eye.

Most of our shooting is done in warm to hot, and usually sunny weather, so some sort of hat is in order. A lightweight golf or baseball cap with a large enough visor to keep the sun off the rear sight while shooting in the prone position is ideal. In extremely hot weather a small sponge rubber forehead sweat band is a welcome item to keep perspiration from running into the eyes. Mine has been worth its weight in gold while shooting during August weather.

Up to now I have discussed items pertaining to both high power and small bore shooters alike. The only item which differs greatly is the footwear.

High power shooters and four-position small bore shooters will find that well fitted, high top shoes or G.I. combat boots will work the best of any footwear, especially in the sitting or kneeling position where these boots will give welcome support. I have seen some four-position shooters use ski boots with excellent results. Most people, including myself, find that high top shoes become uncomfortably warm in hot weather.

Wool gym socks worn under the boots will make your feet much more comfortable. While these gym socks are heavier, they allow the feet to "breathe" and are therefore more comfortable to wear than cotton socks. The small bore prone shooter has no problem with footwear and any ordinary shoe will do for his purpose.

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Now I would like to devote some time to the girls' shooting uniform. It is a lot harder to properly equip and dress a woman shooter than a man. Shooting equipment and accessories have been designed and produced primarily for men. First and foremost, women should have rifles that fit them. There is not a top grade commercial small bore match rifle available with stock dimensions for the average woman. The three major faults that occur in most cases are: 1) The butt stock is too long. 2) The fore-end hand stop is too far forward. 3) The beavertail fore-ends are too wide. Correction of these faults should be made where necessary, for it is essential that the equipment fit before a good uniform is used or the uniform will be of no benefit.

The underclothing should be comfortable. If tight underclothing is a problem, special athletic underwear should be used such as the type worn by women tennis players. A cotton flannel sweatshirt is next for the same reason as given for the men. A comfortably loose pair of slacks should also be worn. Neatness is about all that can be achieved with this outfit. Any attempt at glamour should be forgotten as it is usually laughed at by the serious male shooters.

The toughest problem in the woman's uniform is the shooting jacket. There are no commercially available shooting jackets made for woman only, so obtaining a comfortable, well fitted jacket can be a difficult task. The best way to find a jacket is to try on as many different kinds as possible before buying, until you find one which is comfortable without being too loose to afford support. If a good fit cannot be found, some tailoring will have to be done on available models.

The shooting glove is not much of a problem as several manufacturers make sizes small enough for any woman's hand. M'lady's hat for shooting should have a visor or wide brim large enough to keep the sun off of the rear sight, when iron sights are used, or at least be wide enough to keep the direct sunlight out of the eyepiece when scope shooting. The girls should also use the same advice regarding glasses as outlined for the men.

Although most women don't participate in four position matches, confining their shooting to prone or offhand small bore, proper footwear should be considered. The loafer is usually worn by women when in casual clothes but this shoe provides no support, and when shooting in the offhand position a shift of weight can slide the foot off of the base of the shoe causing a wild shot or a poor score. Also, many matches and clubs are in fields where one can easily sprain an ankle when wearing loafers or sandals. A good tie walking shoe, I feel, is very important although on first consideration it may not be apparent.

I am convinced that if many of you tournament shooters try some or all of the suggestions offered here you will experience much more comfortable shooting as well as much more consistent scores.





## GUNS RACK: Notes On Killing Power

(Continued from page 12)

pounds and  $d$  is the diameter of the bullet in inches. The use of this factor, together with residual energy at the range at which the specific animal will probably be taken, provides an astonishingly accurate evaluation of a rifle's potentialities. Energy is expressed in foot pounds and is arrived at by the following formula: Energy equals  $V^2 \times W$  where  $V$  is velocity and  $W$  the weight of the bullet in grains, of which there are 7000 to the pound.

Following is a table of slide rule figures of sectional densities of the more common calibres:

.22	40 grain	.114	
	55	.157	
6 mm	75	.181	
	100	.241	
.257	60	.129	
	87	.188	
	100	.216	
	120	.258	
6.5 mm	120	.247	
	140	.289	
	160	.330	One of Bell's elephant killers.
2.70	100	.186	
	130	.241	
	150	.278	
7 mm	139	.246	
	145	.257	
	154	.273	
	160	.284	
	175	.310	Another of Bell's elephant guns.
.30	110	.166	
	130	.195	
	150	.225	
	170	.256	.30-30 W. C. F.
	180	.270	
	200	.301	
	220	.331	
.32	170	.236	
8 mm	125	.171	
	150	.205	
	170	.232	
	225	.309	
.333	200	.258	Maximum sectional density.
	250	.322	
	275	.354	
	300	.376	
.348	150	.176	No elk load.
	200	.234	Marginal for
	250	.293	large animals.
.35	200	.223	
	250	.278	
	275	.308	
	300	.335	
.375	235	.239	
	270	.274	
	300	.304	

The so-called elephant rifles, from .400 upwards, all have sectional densities of over .300. They are known to be quite adequate

for the job, so I shall not dwell on them excepting to point out that there is nothing surprising about the reputation the new .458 Winchester Magnum is making for itself. Aside from the fact that the .458 solid is jacketed in steel, it has a sectional density of .340—substantially more than the somewhat larger bored rifles throwing bullets of similar or less weight.

In the light of those figures, let us consider just what it is that sectional density means, practically speaking. In the first place, it is the factor which controls a projectile's ability to penetrate, other factors being equal. Supposing, for instance, you could shoot a half dollar at 3000 feet a second and that it hit its objective flat; it would hardly have the penetrating qualities of a long, slim projectile such as a bullet, driven at similar velocity. Therefore, given equal velocity and weight, the bullet with the greater sectional density will have greater powers of penetration. This is of no small importance if one is trying to drive a bullet into the boiler-room of a going-away moose.

Secondly, sectional density combined with a factor based upon the configuration of the bullet results in what is known as the ballistic coefficient of the bullet; and it is this ballistic coefficient which determines the bullet's ability to retain velocity and, hence, energy over long ranges. If long range shooting will be required, this is something to which considerable attention should be given. An examination of the 200 and 300 yard figures in the ballistic tables will surprise many people who have concerned themselves principally with muzzle velocities and energies. Some people may have been surprised, for example, at the reputation the little .243 Winchester has made for itself as a long range deer and antelope rifle. The very sound reason for its success is that at 200 and 300 yards it is not so little. At 200 yards the 100 grain .243 still has 1430 ft. lbs. of energy. This, incredible though it may seem, is more than the 200 yard energy of such stout loads as the .300 Savage in either 150 or 180 grain loadings, the .30-06 with 110 grain loading, the 8 mm with 200 grain loading, the 150 grain .348, the 200 grain .35 Remington, and even the 175 grain 7 mm. At 300 yards and farther, the superiority of the .243, energy-wise, becomes more and more pronounced. In fact, its 300 yard residual energy of 1190 ft. lbs. puts it ahead of all .348 W. C. F. loads and even the 150 grain .270 Winchester. That explains pretty well why the .243 is quite a long range proposition and why at least one well-known African white hunter is completely sold on it for the lighter varieties of plains game.

Another fascinating example of what ballistic coefficient can mean is the astounding fact that the 180 grain .300 H & H Match load has 40 ft. lbs. more energy at 300 yards than the 510 grain .458 Winchester soft point, although the .458 starts out with 1710 ft. lbs. more than the .300 H. & H.

If, therefore, either penetration, flat trajectories over long ranges, or high residual energy are matters of importance to a rifleman, then he should not lose sight of this matter of sectional density.

Let us now see how this combination of



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sectional density and residual energy may be applied to practical hunting problems, and let us consider the criteria on which to base the selection of a deer rifle. We know, empirically, that the .30-30 class of rifle is quite adequate for deer and similar-sized animals at all but very long range. This load with the 170 grain bullet has a sectional density of .256 and a residual 200 yard energy of an even 1000 ft. lbs. We also know that a .250-300 Savage is an entirely adequate deer gun, particularly with the 100 grain bullet which has a sectional density of .216 and a residual 200 yard energy of 950 ft. lbs. If, therefore, we were to assume that a deer rifle should have a sectional density of at least .200 and a residual 200 yard energy of at least 900 ft. lbs., we would not be far off, and we would eliminate a lot of deer wounders such as the light varmint loads which sometimes kill like lightning but which often fail to penetrate sufficiently—and also the lower powered loads which cannot honestly be recommended for the average hunter under average conditions. Everybody knows, of course, that deer can be killed with .44-40's and .38-55's and the like—killed very dead, indeed. In fact, I believe that up until a very few years ago statistics would show that more deer were killed with the .44-40 than any other cartridge. It is also true that lots of deer have been killed with bows and arrows, Kentucky squirrel rifles, and .22 Long Rifles. I can only repeat that the average hunter under average conditions will probably bring home more bacon with a rifle conforming to the above recommended requirements.

These minimum requirements give a hunter a lot of latitude. If his hunting is to be done

in the open, mountainous country of the west, he would probably be wise to look for velocity such as provided by the .250-3000 Savage type of rifle, since he will enjoy flatter trajectories and be surer of vital hits at long ranges. If, on the other hand, his shooting will be done in brushy country where most of the shots will be at under 100 yards, then it seems to me that something on the order of a .35 Remington would be infinitely preferable, since the weight and configuration of the .35 bullet will buck brush better than any light, spitzer bullet. These comments deal, of course, with minimum requirements and are by no means intended to rule out rifles of more power.

While there are, of course, arguments about deer rifles, they are nothing as compared to what one hears when it comes to rifles for elk and the larger animals. One expert will say that the old, reliable .30-06 is completely unreliable on elk, while another reports killing most of his elk with a .270 Winchester. As far as I am concerned, they are both right and, like Voltaire, I shall defend to the death each man's right to his opinion. It all depends on conditions and the individual hunter. If you had spent a lifetime guiding deskbound dudes who did not know an elk's backside from his brisket and probably could not hit either—and if most of your guiding had been done in heavy timber—then you would certainly be justified in looking with a jaundiced eye at .270's and .30-06's, particularly if your hero insisted on using the lightest rather than the heaviest bullets available. Confronted with the situation, a guide has every right to commit mayhem and take to the needle. He also has every right to recommend rifles

heavier than the two mentioned.

On the other hand, a trained rifleman and seasoned woodsman who points his rifle at the proper part of the animal, and who hunts in country where he has a reasonably good chance for a clear shot, will find either the .270 or the .30-06 entirely adequate with proper loads. Again, it all depends on the hunter and the terrain.

In any case, and based once again on empirical considerations, I believe that for elk and larger animals a bullet should have a sectional density of at least .260 and a residual 200 yd. energy of at least 1400 ft. lbs. In this case, the low limit for sectional density is governed by the 180 grain .30 calibre bullet, and the low limit on energy is based on the 200 yard figure for the factory 7 mm load with the 175 grain bullet. These minima apply to hunting in reasonably open country where a hunter can pick and choose his shots. If he is going to hunt in very heavy timber where brush will intervene, where raking shots may be required, and where it may be quite impossible to pick the proper point to aim at, then I sincerely believe that bigger and heavier bullets having more sectional density should be used. It seems to me that a bullet should have a sectional density of at least .275 and should weigh at least 250 grains. We know from the records that the old .35 W. C. F. was a good elk rifle. The new .358 Winchester throws a bullet of like calibre and weight at somewhat higher velocity: 250 grains, sectional density .278. That would be my minimum timber rifle for the larger species and I should prefer the just-in-production .338 Winchester Magnum or those two great wildcats, the .333 O. K. H.

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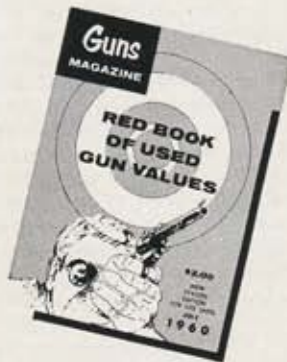
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and the .35 Whelen.

I might add at this point that I believe the .338 Winchester will be one of the world's great rifles of all time. If there is such a thing as an all-round rifle for everything from chipmunks to elephant, this will be it. It will throw a 200 grain bullet at 3000 ft. secs. for the high velocity boys. Its 300 grain bullet will have the highest sectional density of any wildcat or factory load, domestic or foreign. There has already been developed a handload with a 275 grain bullet developing 2700 ft. secs. velocity at the muzzle and something over 4450 ft. lbs. of muzzle energy. This is more than any load available for the .375 H. & H. Magnum, and the difference in favor of the .338 becomes more and more pronounced as the range increases, due to the superior ballistic coefficient of the .338 bullet. It will be handled by rifles with bolt throws no longer than that of an ordinary .30-06. It is my humble prediction that it will obsolete many presently famous cartridges.

For dangerous game such as elephant, rhino, and buffalo, I believe that a bullet should weigh at least 400 grains, have a sectional density of at least .300, and a muzzle energy of at least 4000 ft. lbs. For lion, I believe that the bullet weight may be reduced to 300 grains providing the other two factors remain. In the first category, the minimum is provided by the .450-400 Nitro Express and the .404 Jeffery. In the second, the .375 H. & H. Magnum with 300 grain bullets fills the bill, together with some of the .33 and .35 calibre wildcats.

British East Africa now prohibits anything smaller than the .375 Magnum on elephant, rhino, buffalo, and lion, and there are rumors that this will be boosted to .400 calibre shortly. The white hunters are getting justifiably tired of trailing wounded, dangerous animals through heavy grass or bush—animals which have been peppered with inadequate rifles by inadequate riflemen. All modern hunters are not Karamojo Bells.

All of man's efforts to establish rules and regulations have been confronted with the well-known exceptions. The above suggestions are just suggestions and subject to all manner of exception. The serious rifleman and student of exterior ballistics will have no need for these comments. Rather, they are offered as a guide to those who want to shoot and not be bothered with all the whys and wherefores. These formulae are not perfect, but they will, I hope, provide a yardstick through the use of which a hunter cannot go very far wrong. (They will also, no doubt, provide me with a lot of argumentative correspondence!)

## GUN OF THE MONTH

(Continued from page 33)

The fish roe background on Wolff guns is traditionally German, usually found on German or North Italian flintlocks with a fire gilding; the metal figures or design otherwise being left bright. Colt, ever-economical, did not gild his regular engraved guns. Artistically, the Wolff guns are "German" in execution, with coarse scrolls boldly executed. Other engraved Colts which are fairly common are those engraved in England. These include American made guns (such as squareback Navies shipped to the Great Exhibition), Dragoons, London-manufactured arms, and Hartford arms shipped to London after the factory closed in 1856. All may have British engraving on them. Third class are those with "American" engraving; decoration neither as formal as the Germanic style applied to the lines of the Colt guns, nor usually as finely detailed as the British scroll. Because of the pressure of business, few of the earliest Colts were fully engraved. W. L. Ormsby, who cut the cylinder stamp die, might have engraved some 1850 Colts. This Pocket Pistol is unusual therefore because of its "American" engraving, the horizontal and vertical background detail and, above all, because it hasn't been "cleaned up" or "restored" by some cold-chisel artist. (Revolver formerly in collection of Sig Shore.)

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**SEE PAGE 66**

## A RACK YOU CAN BUILD

(Continued from page 41)

those of the arms which support the guns. These have been carefully worked out so that most of the present day rifles and shotguns will hang parallel if rested by the barrel and just behind the trigger guard, facing one another. I strongly recommend that anyone who has an idea of cutting out this smoke-pole-holder make a full-size pattern of the brackets on cardboard, so that they can be traced identically onto the wood. Then, if you should happen to own a hole-cutter or expanding bit which will open up to a 2 1/4" circle, half the work is done.

Another essential item not shown in the diagrams is narrow felt or foam rubber strips to be glued on to the brackets where the weapon rests on the wood. The hardwood dowel pins which join the arms and uprights may be glued in position or left free for future disassembly.

## STOCKS and GRIPS

(See also pages 62, 64)

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## TINY GUN, BIG PERFORMANCE

(Continued from page 21)

capable of being held well enough to permit some determination of its value, I put together a thousand rounds, using Hensley & Gibbs #50, 146-grain wadcutter, with 2.8 grains of Bullseye. Metal was lead 16, tin 1. In addition, I had on hand a supply of Remington factory ammunition for some double checking and comparisons.

All firing was to be done without hand or arm rest, since the main purpose was to discover what could be expected of the gun as a self-defense weapon under natural conditions. It was not just a question of the gun's inherent, or machine rest accuracy, but a broader one of whether it was possible to control a gun that seemingly lacks everything that generations of marksmen have demanded for precision shooting.

Frankly, because of the short sight radius and the lightness of the gun, I doubted that it would be possible to hit a 12-inch bullseye consistently at 30 feet. No assumption could have been more erroneous. The runt put all of its shots in the black, ten times out of ten. Even at 50 feet there were no misses, so I put up a 25-yard slow fire pistol target at 25 yards. At this range, when I did my part, the Airweight still kept all of its shots in the black, which on this target is only 5½ inches across. Sometimes as many as seven hits out of ten shots would be in a 3½-inch group.

My next move was to set up cans in a snow bank 40 yards away. They were 3 inches wide and 4 inches high and blackened in fire so they'd be visible. To my amazement, the incredible little gun could make two and sometimes three hits out of five, with most of the misses very close, as revealed by holes in the snow bank. Were my skill greater I believe that 10-shot possibilities could have been registered.

So far, all the shooting had been done with

single action, sight-aimed fire, and the performance had obviously been far beyond any accuracy requirements of combat. But how about the gun's effectiveness in shooting without use of sights, as in hip-level firing, either single or double action? Would the small stock and the clutching hold I was using result in wild shooting awkwardness?

To get an answer, I used the Colt silhouette police practice target. It took me a couple of dozen rounds fired slowly, double action, to get the feel of this gun in hip level shooting. After that I was soon able to make just as high a percentage of effectively placed hits with it as with either my Colt Officer's Model or my S&W K38. In rapid fire there was no tendency at all for the lightweight midget to climb or twist loose in the hand, thanks to the hold already described. The firing rate used was 5 shots in from 1½ to 3 seconds, since this was considered plenty fast enough for combat.

To be of value a self-defense weapon needs to have stopping power as well as accuracy. How would the Airweight with its 2-inch barrel measure up? (Actually, the barrel on my specimen measures only 1.8 inches.) For a test I used knot-free, pine boards that were well seasoned. They were laid on top of each other in a compact bundle and tied together. They were then placed against an unyielding support. For comparison with the Airweight, I used my K38 with its 6-inch factory barrel. Clearance between cylinder and barrel on these guns is .004 inch. Both barrels mike .356 inch groove diameter and both have an excellent factory burnish.

I tried the Remington Targetmaster 158-grain round nose factory cartridges and my own aforementioned wadcutter handloads. Here are the penetrations in inches, measured from the face of the first board to the

deepest point reached by the nose of the bullets. Distance from muzzle to board was 3 feet.

With Remington 158-grain Targetmaster Chiefs Special Airweight....4½ in.  
K38, 6-inch barrel.....5 in.  
With 146-gr. w'dc't'r, 2.8 gr. Bullseye Chiefs Special Airweight....2½ in.  
K38, 6-inch barrel.....3 in.

As will be noted, there was only a half inch difference in penetration with 158-grain round nose bullets fired from the 2-inch barrel as compared with the 6-inch. This was true in spite of the fact that bullets from the short barrel were yawing, as indicated by the slightly oval holes they made in the face board. A few further shots fired at 6 feet showed no signs of yaw, indicating that in this distance the spin imparted by the short barrel was sufficient to stabilize the bullet. There was no yaw with the wadcutter bullets, at either distance or from either gun barrel.

It is interesting to note that with the round nose bullets the 2-inch barrel lost 10% in penetration as compared with the long barrel. This correlates with velocity test results which show a loss of 93 f.s., or 11.8%, for a 2-inch barrel against a 6-inch barrel. (Maj. Gen. Julian S. Hatcher, November, 1954, *American Rifleman*.) It should be kept in mind, however, that so far as the selection of a self-defense weapon is concerned, the choice is not between 6 inches and 2 inches of barrel. It is between 4 inches and some lesser length down to 2 inches. General Hatcher's tests showed only a 67 f.s. loss with the 2-inch barrel compared with the 4-inch. On the basis of my pine board results, this would give a 4-inch barreled gun only ¾ of an inch penetration advantage over the Chiefs Airweight.

Doubts that I had in the beginning about the durability of the small mechanism and the lightweight metal in the frame were groundless. The firing of 1400 rounds failed to develop any detectable looseness.

Great caution should be used in firing this gun in an enclosed area such as a room, basement, or shooting stall. Like all short barreled weapons the report of this one is sharp—and it is heavy.

As soon as I worked out the proper hold for me, recoil was no longer a problem. But then, I was accustomed to many years of almost daily firing with handguns and high powered rifles. Many persons who are not regular shooters are very likely to find the recoil of the Chiefs Special Airweight rather fearsome. The lady of the house here, who sometimes beats me with her Colts Officer Model .38 Special, found it so. I solved the problem by loading up a small supply of ammo with 2.3 grs. of Bullseye. This made a mild shooting and surprisingly accurate load. The next batch for her I boosted to 2.5 grains of powder. With the Hensley & Gibbs #50 bullet it made a splendid load right on out to 25 yards. Additional boosts in power were made in 1/10 grain increments, with 2.8 grains the maximum.

The big performance of the small gun shows that in a self-defense revolver, extreme light weight, very short barrel, and smallness are no obstacles to effective accuracy, real hitting power, and reliability when the engineering and workmanship and materials equal those of the Chiefs Special Airweight.





## ELMER KEITH SAYS

(Continued from page 9)

It is .30-06 length, and any good strong bolt action with a .358" groove barrel should be easy to alter to handle the new round. Groups of  $2\frac{1}{2}$ " have been obtained at 300 yards with machine rest, and the Norma Co. furnishes a Gunsmiths Service Set, composed of a finishing reamer for the chamber and forcing cone along with five dummy cartridges for adjusting and testing the magazine and extractor. This Gunsmiths kit will be sold along with the ammunition to any gunsmith. It is the first time we have heard of an ammunition maker furnishing all cartridge dimensions and a precision-ground finishing reamer to chamber rifles for the new cartridge.

### Pachmayr Outfit for Lefties

We have tested a Model 110 Savage .30-06 left-hand bolt action rifle fitted with soft rubber, trestle-type recoil pad and All-American 4X Lyman scope in Pachmayr left-hand mount of the swing type. It is a well shaped, light, handy, well balanced rifle. Stock is an excellent Monte Carlo P. G. type that fits well. Everything about this rifle is strictly south-paw. Pachmayr has reversed his Model '99 Savage mount, making a first class left-hand swing mount for the good Lyman 4X All-American scope. The rifle is also fitted with a folding semi-flat-top, adjustable, open sight and corres-



ponding high front sight for use when the scope is swung up out of the way in bad weather.

We like many things about this rifle and action. The fine safety is positioned just right, right on the top tail of the receiver. The bolt handle, instead of dropping down in a mortise in the stock, fits into a steel lined mortise in this rifle. Trigger guard and floor plate boast three guard screws similar to those of the Model 70 Winchester and Model 721 Remington.

Two things we do not like are, first, the fact that firing pin protrusion is governed by the coin-slotted screw-head on the rear end of the striker, and, second, the separate rotating bolt head and locking lugs—not as strong a construction as a solid one-piece bolt with lugs on the bolt shell proper.

The good Lyman scope is perfectly positioned for most shooters, has medium-coarse cross-hairs that can be seen clearly in about any game-shooting light. The Pachmayr swing mount is a very sturdy top mount, the base anchored by two screws on the receiver and two more on the bridge. Extraction was free and easy with M-2 Service, Commercial hunting loads, and match grade hand loads. Three of us tried the rifle with Service M-2 and also with hand loads, and all three secured  $4\frac{1}{2}$ " to 5" groups, at 100 yards.

The barrel is straight and apparently well cut, so we saw no good reason why

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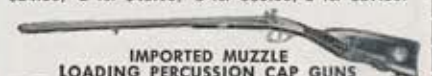


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it should not group better than this unless the barrel was improperly bedded or the guard screws loose. So I hopped on the guard screws with my big screw driver, and managed over a half turn on the front guard screw, the most important one. After that, the rifle went to work. Five shots with Remington 180 grain round nose Core-lokt showed four of the five well under a silver dollar and the other one out but three-fourths of an inch. So the little rifle will shoot. That loose guard screw was the one cause of our trouble, and the rifle grouped very well with all loads tried after tightening it. I think it would perform even better if glass bedded to put three to five pounds of pressure on the barrel. This rifle has no pressure at all on the tip of forestock, and the barrel can and does move around in the big mortise. This is a very fine little rifle and at a price within the reach of all southpaws. Lefties wanting a good bolt action scope-sighted outfit should investigate this Pachmayr Model 110 Savage with his left hand swing mount and any good hunting scope. Its short barrel and light weight make it also a nice rifle for the left-handed lady hunter.

### Norma-Precision .300 H & H Magnum

We have just tested some Norma .300 H & H Magnum ammo in both 180 and 220 grain boattail bullet loadings, and found it excellent and very accurate hunting ammunition. I have a very light but super-accurate Weatherby Mark V rifle for the .300 H & H cartridge that usually shoots under an inch at 100 yards from bench rest or with sling, and it handled the new ammunition perfectly. The 220 grain and 180 grain loads shot to practically the same elevation at 115 yards. This little rifle weighs but 8 3/4 lbs with scope, rather upsetting my friend Col. Whelen's idea that, to be super accurate, a 300 Magnum should weigh at least 10 pounds. Recoil is very light and would not bother any seasoned shooter, either man or woman.

Both the hollow point, pointed 180 grain and the round nosed 220 grain Norma bullets are very accurate and well made and finished. They are designed for proper expansion at long range, without disintegration at short range. Both the Norma Loads

and some Remington .300 Magnum in 180 grain Core-lokt, pointed, soft point, shot to same elevation and group at 115 yards, indicating the ammunition was interchangeable, in this rifle at least, for all hunting purposes. Cases are hard brass and all fired cases extracted free and easy, indicating normal working pressures. The cases take our large rifle primers and may be reloaded many times.

The new Norma 220 grain boattail reminds me of the fine, tip-of-lead 220 grain .30 caliber boattail that Western used to furnish but discontinued in favor of their Silver-tip. To my notion, and after shooting a lot of it in game and seeing others do likewise, the old 220 grain Western tip-of-lead boattail was one of the finest hunting bullets ever made in .30 caliber.

Norma also furnishes components, bullets and cases, for all cartridges they manufacture, as well as partly finished cases for those who wish to shape their own in special calibers. I procured some excellent .30-06 case blanks from them with which to form 400 Whelen cases with the least amount of work. Merely neck them down to .40 caliber from the straight-sided blank, and check for headspace. Others can obtain these case blanks for the .333 O.K.H., .35 Whelen, .375 Whelen, and .400 Whelen.

### Waterproof Loads

Recently, Mrs. Keith ran a pair of my fishing pants through the family wash. After soaking, then washing in hot soapsuds, and rinsing, they went through the wringer and were hung out and dried. Then I found one of my hand loaded .44 Magnums in a hip pocket.

The cartridge was a Remington case and Remington 2 1/2 primer. Case had been re-sized and loaded in the R.C.B.S. sizing die and loading dies. The expanding plug of this set is but .420" in diameter and the case was reduced so that the bullet was held friction tight before it was crimped.

I handed the cartridge to Roland Burmeister of Chicago, telling him what it had been through, and he proceeded to fire it in his S & W .44 Magnum. Results—perfect. This shows how waterproof a cartridge can be when properly loaded. We have also shot .30-06 military ammunition that had been under water for years.



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By Larry Koller  
(Simon & Schuster, New York, 1959, \$9.85 before Dec. 25, \$12.95 after)

When more beautiful books than this are produced, I hope I get a copy. You don't even have to read this one to prize it—the superb color and black-and-white (but mostly color) illustrations make it a bookman's gem—but reading won't detract from its value. By way of a description of the editorial content of the book, I cannot improve on the publisher's blurb: "... a 450-year panorama of the firearms that made history in America and of the legacy they bequeathed to the fifteen million hunters and target shooters who perpetuate the unique American feeling for guns today." The book is that. It is also a sure-to-be-prized gift for any "arms library," including yours.—EBM

## THE BADMEN OF THE WEST

By George Hendricks  
(Naylor Co., San Antonio, Texas, 1959, \$5.00)

Here are all the stories you ever heard about the Old West and its gunmen, plus some new ones. The trouble, in this reviewer's opinion, is that here the truth is indistinguishable from the tales (already too often told) which have been disproved or have at least been branded "doubtful." The flat statement that Billy the Kid shot Sheriff Brady "clean through the heart" to win a five-cent bet is hardly consistent with the fact that Brady died from one of many bullets fired by several men shooting from ambush—and this is just one of many such statements about many similarly disputable events. As a reference book of names, places, and tall tales as they were told, this volume has value. But it should be read to the soft background music of the old song entitled, "It ain't necessarily so."—EBM

## PHOTO HISTORY OF CIVIL WAR

(Dover Pub., N. Y. \$6.00)  
The Photographic Sketch Book of the Civil War, as wet-plate photog Alex Gardner titled his 100-picture two volume issue in 1866, was a graphic portrayal of sights and scenes of the war. In spite of the years'

passing, Gardner's book remains timely in popular interest today. Dover's republication of this rare classic (less than a dozen copies are known) brings to light many unusual pictures of Civil War guns and the men who used them.—WBE

## ENCYCLOPEDIA OF MODERN FIRE-ARMS, Parts & Assembly

By Bob Brownell  
(Bob Brownell, Montezuma, Iowa, 1959, \$17.00 Postpaid)

This may well be one of the biggest gun books on your shelves; it could also prove to be one of the most useful, particularly if you're a do-it-yourselfer. Fat with 1060 8½"x11" pages, with literally thousands of line and halftone illustrations, this book gives you the assembly-disassembly instructions for all modern American commercial and military guns—plus pictures and dimensions of all available parts thereof, and where they go; a monumental job, well done. Can be bought also unbound and punched for three-ring loose-leaf binding, ready for additional material now in preparation. (Price in this form, with binder, \$21.25.) This is not a book you read; it is a book you turn to when no other book you own will tell you what you need to know.—EBM

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