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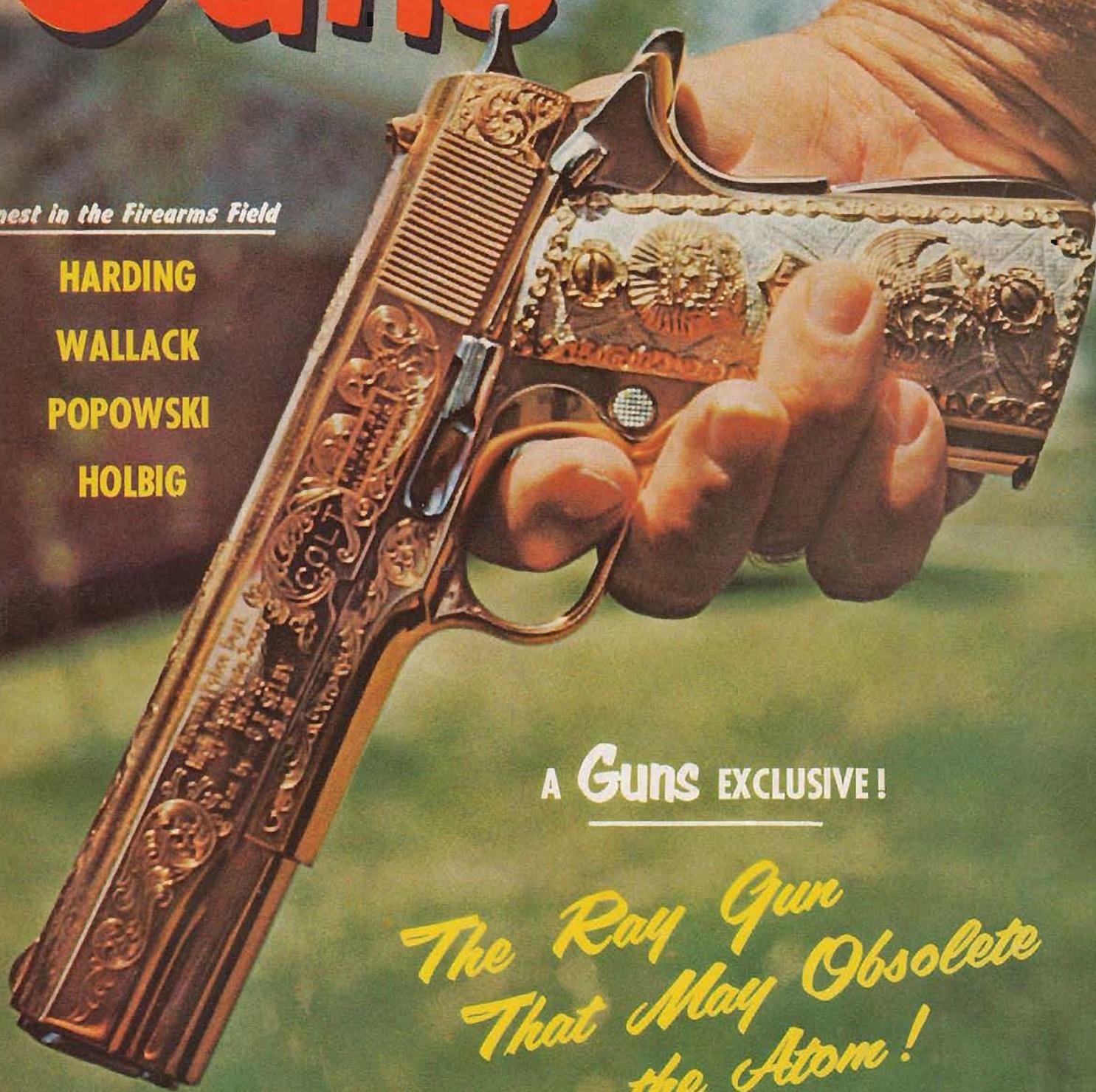
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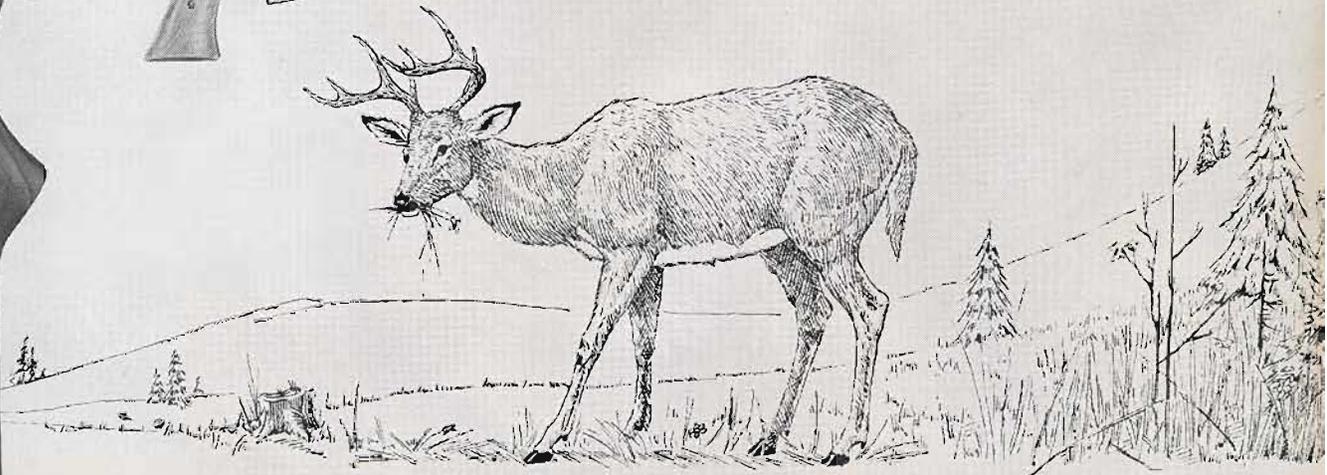
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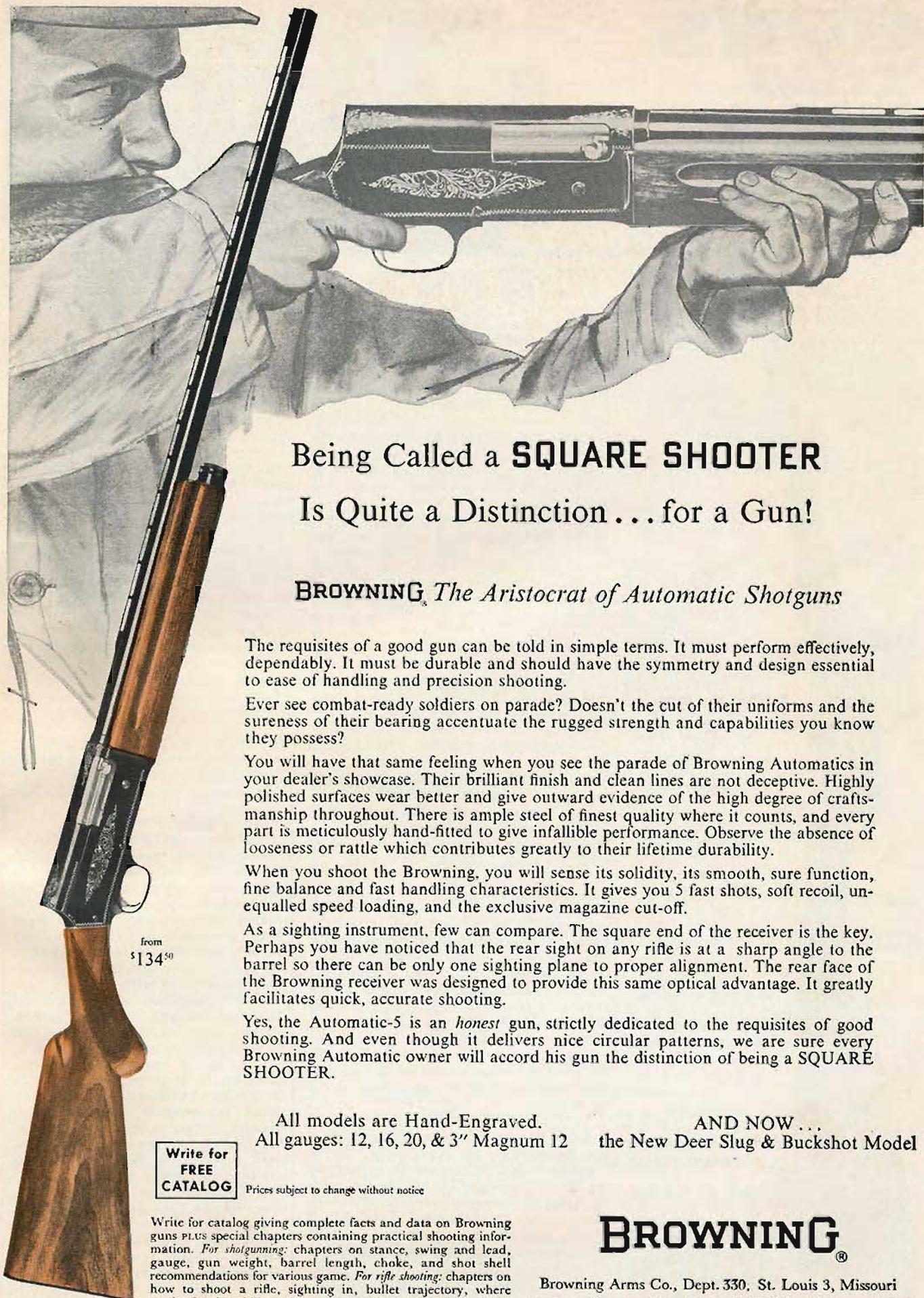


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Pull!

BY DICK MILLER

THE SMITH brothers (not the cough-drop variety) were hard to stop at the Morgan County Gun Club May Open skeet event at Decatur, Alabama. Clinton Smith topped the field with a 99 for the trophy (he actually broke 100 targets, but was perhaps a mite too careful with one and it flew too far). Donald Smith, his brother, and also from Albertville, took home the AA trophy with a score of 97. Dr. Harold Blanton of Hartselle broke 98 targets for the runner-up spot to Clinton Smith.

A 97 by C. F. Langer from Florence, Alabama, was good in Class A. Fred Emens of Decatur took Class B with 96 broken birds, Doyle Miller topped Class C, and another Decatur gunner, Bo Agee, kept the Class D trophy at home. Bill Thompson drove over from Huntsville, the rocket capital, and launched a successful shoot in Class E. Gordon Blanton of Hartselle edged Randy Emens from Decatur for the junior title.

A real battle developed in the Silver Dollar Challenge trophy event that followed the open registered program. Six shooters tied over the regulation distance, but two of them left the grounds before a shoot-off—and were home much earlier than if they had stayed! The four bitter-enders, Bo Agee, Fred Emens, Dr. Blanton, and Charles Weatherall, fired six extra rounds. Bo Agee outlasted the pack for the win as darkness fell.

The Morgan County Club hosted the Alabama State Skeet championships July 7-8, and this column hopes to report on this event in the heart of Dixie next month.

Speaking of Smith's, there is another Smith, this one from Mississippi who will bear watching on the skeet scene. David R. Smith, a 15-year old youngster from Starkville, had a hot streak going early in the season. Dave won 410, 20, and 12 gauges in his class at Amite, Louisiana; won 20 and 12 gauge contests in the Spring Fiesta at New Orleans, plus 20 and 12 gauge titles in the Hillbilly Open at Starkville.

Last we heard Dave was all set to leave for the Pan-American event in Dallas, but Pull! doesn't have the word on what happened there.

Another junior skeeter from Dixie is making big noise in the skeet world. "Skeet Shooting Review" reports that Dixie gunners are already comparing Gordon Blanton from Hartselle, Alabama, with the storied Miner Cliett. Gordon broke the hundred straight in his first registered skeet event, and lost the shoot-off when he dropped his 124th bird.

Small wonder the lad didn't quit the sport on the spot, and take up some game in which it was easier to win! He's a football player,

however, and thrives on competition. He also likes water sports, horseback riding, and naturally, hunting.

The entire skeet world has been saddened by the death of Mrs. Max (Lecretia) Thomas of Dallas, captain of the women's All-American team and winner of the Ladies All-around, 12 gauge, and 20 gauge championships in the 1961 World Championships at Reno in 1961.

On the brighter side in feminine skeet shooting news, young Mrs. Marjorie Annan, whose performances have brought several paragraphs in earlier "Pull!" columns, extended the long run in 410 events for women to 76, topping the old mark held by Mrs. Ann Martin Hecker and set in 1951.

Like batting records, home run records, and track records, skeet records are set to be broken, or so it seems; and the current crop of men, women, and juniors give promise of knocking still more skeet records into oblivion. We will try to keep the reader informed as these fine performances by shooters of an earlier day are topped by a new and hungry group of target smashers.

My old friend (duration of friendship, I mean, not age) Homer "Hundred Straight" (Continued on page 41)

Junior Trap Shoot

The State of Washington has a hunter training program but, as most do, the emphasis lies with the .22 rifle. Sportsman members of the Vancouver Elks Lodge felt that the lads should have an opportunity to learn how to swing a scattergun on flying targets and they set about giving it to them.

In cooperation with the Vancouver Trap and Gun Club, the first class was held last fall and 35 boys attended. Parents were welcome but they had to stay well behind the firing line.

One hour of instruction started the program to acquaint the boys with proper gun handling on club grounds. Good gun manners afield were reviewed. Following regular trapshooting procedures, squads of lads took their turns on the field. Not one boy violated the safety rules.

Of particular interest are the scores. Most of the boys had never fired a shotgun at clay targets, yet, out of the 35 lads, 16 broke better than 20 targets and one youngster broke 24. The lowest score fired was 11 x 25.

—Mike Kennedy in "Target Tabloid"

Guns

FINEST IN THE FIREARMS FIELD

SEPTEMBER, 1962

Vol. VIII, No. 9-93

George E. von Rosen
Publisher

Arthur S. Arkush
Ass't to the Publisher



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THE COVER

It's an old saying that "Handsome is as handsome does." This handsomely decorated pistol does very well indeed in the hands of Detective Lieutenant Gordon Selby, top marksman of the Phoenix, Arizona, Police Department, who won it by maintaining an average of better than 98 per cent on the FBI combat pistol course. Gun skills have saved Selby's life on several occasions. Photo is by Charles Neihuis, Ouray, Colo.



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HANDLOADER'S DIGEST

Edited by John T. Amber
(*The Gun Digest Company, Chicago, Ill.,
1962, 1st edition. \$2.95*)

Only a thorough perusal of the Handloader's Digest will disclose the monumental amount of work that John Amber and associates have poured into this 224 page compilation of handloading equipment and lore. This is not a how-to book as many had anticipated; of these there are any number. Neither does the book offer loading tables. More important, and filling a very real need, "Handloader's Digest" is first and foremost a listing of handloading tools, reloading equipment, and the hundreds of gadgets we handloaders love. For the asking price, "Handloader's Digest" is a bargain, the biggest one in the field.—R.A.S.

SAVAGE CATALOGUE, 1900

(*Reprinted, 1960, Savage Arms Co.,
Westfield, Mass. \$1.00*)

Would you like to buy a Savage rifle, the famous Model 99, brand-new from the factory, for \$20.00? You can't do that—but for \$1.00 you can buy a facsimile reprint of the 1900 catalogue, 56 pages and covers, in which the gun was listed at that price, along with many other items at comparable prices. There are those who would call it a form of self-torture, but if you would like to compare gun values now with those back there "at the turn of the century," limited numbers of these catalogues are available from Savage.

—E.B.M.

THE ARCO GUN BOOK

By Larry Koller and Bob Tremaine
(*Arco Publishing Company, New York,
N. Y., 1962. \$7.50*)

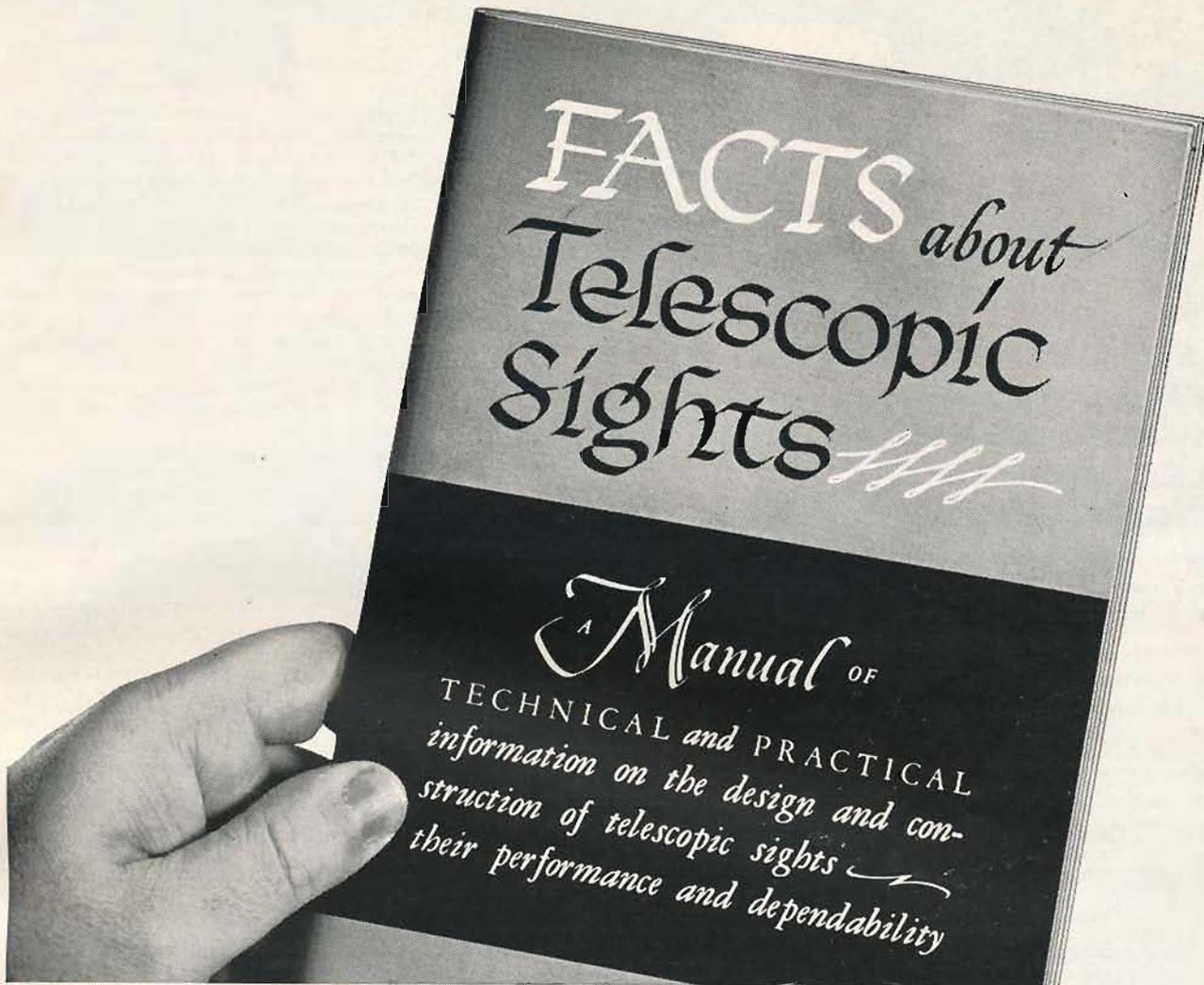
This book constitutes a basic primer for the beginner and can serve the advanced shooter as reference. Within its 400 pages, the editors have compiled some of the fundamentals of shooting the rifle, the handgun, the shotgun, some big game and upland hunting techniques, and such topics as handloading, holsters, and numerous other, related subjects. Interspersed with this information, and combined with each section of the book, is a short catalog listing of the appropriate gear, guns, and ammo.—R.A.S.

OLD BILL WILLIAMS, MOUNTAIN MAN

By Alpheus H. Favour
(*Published by U. of Oklahoma Press. \$4.00*)

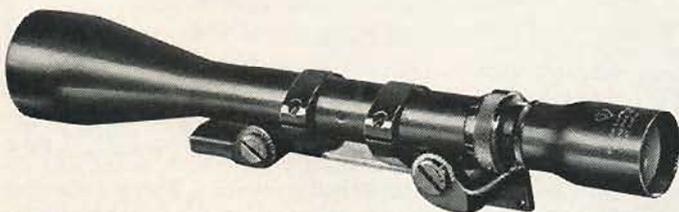
Published first in 1935, Favour's biography of William Sherley Williams may still be the best factual picture of the legendary Mountain Man—the type as well as the individual—as he really was. Hero or monster depending on when you saw him and under what conditions, Old Bill was a controversial figure in his time, became more so after his participation in the ill-fated fourth Fremont expedition, and has remained so ever since. This book does not resolve the controversy; it merely provides facts with which to feed it.—E.B.M.

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*NOTE—Available in .25 cal. 100-170; 6.5mm 120-140; .270 cal. 130-150-170; 7mm 130-145-160; .30 cal. 150-165-180; .303 cal. 150-180; 8mm 150-170-225; .33 cal. 275; .338 cal. 200-275; .348 cal. 180-220; .35 cal. 180-220-250; .375 cal. 235-285.

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HANDLOADING BENCH

By KENT BELLAH



Tingle's .400

HANDLOADING was centuries old before cartridges were invented. The soft coal burners still provide plenty of shooting fun at less cost than .22 shorts. The new Tingle .400 caliber Black Powder Single Action is a really fine single shot. It's sold by American Craftsmen, Inc., 12645 La Cresta Dr., Los Altos Hills, Calif., at \$49.50. A dandy legal shoulder stock, at \$19.50, attaches quickly for rifle-like accuracy. The guns are made by Bob Tingle, 1125 Smithland Pike, Shelbyville, Indiana.

Bob's pistol is strong, simple, well designed and finished. Weight is 36 oz. with a 8" octagon steel barrel, and a frame machined from solid brass. Wood is quality walnut. Main and trigger springs are of the coil type to reduce breakage. Hammer and trigger are attractively case hardened for



long life, and well fitted. The square notch rear sight, adjustable for windage, is locked with an Allen screw. So is the barrel. Loosen this screw and the barrel slips out for cleaning. It has a standard nipple.

The 12 groove rifling is .430" groove diameter. Standard equipment includes a nipple wrench, two Allen wrenches, and a steel ram-cleaning rod. American Craftsmen or Lyman can supply moulds for .400" balls weighing 97 grains. All guns pass a 100 grain FFFg proof charge. This isn't a shooting load.

Tingle recommends 26 grains FFFg with a .015 bed-ticking patch. You can dip it with a .357 case. Blacklistics (black powder ballistics) can be improved with up to 50 grains, or reduced to 15 grains. Use a .38 Special hull to dip about 22 grains, a solid head .44 Special for 32 grains, or a .44 Magnum for 38 grains. This is all the spread you need. Ffg is OK in the same charges.

I like Winchester caps. No. 12 caps are correct, but No. 11 works in a pinch. Alcan's G 12 F (French) foiled caps are much superior to their G 11 F (Italian) caps. Pour a charge, place a ball on a patch, ram it home, seat a cap, and you're in business. Accuracy is real good. Smoke the brass front sight for targets. Paint it with red nail polish for brilliant contrast against any background. Balls are easily cast with soft lead. They require no sizing, dies, tools or hulls!

You can blast the whey out of targets

tossed in the air with shot loads. Try a .357 case full of black powder, and the same case full of No. 7½ shot. The load isn't critical. For lack of a better wad use ½ sheet of Kleenex over powder and ¼ sheet over shot. Range and pattern would be better if the bore was reamed smooth.

Illinois Long Range Copper Plated Shot is excellent. The heavy plating is not a wash, and it eliminates leading. In shotguns this shot is much superior to chilled shot. More pellets reach the target, penetration is deeper, and patterns thicker and more uniform. This is well worth the extra cost in all reloads.

Some early guns had 6 groove rifling. Mine, serial No. 48, has 12. Bob's first guns were stamped Tingle Black Powder Magnum. Smith & Wesson hit the ceiling and with just cause. They were darn nice about it, as Tingle made an honest mistake. He didn't know Magnum was a S & W trade mark, registered in the U. S. Patent Office. The fault was the recent doings of some gun writers who incorrectly called various guns a "Magnum," or "magnum." For example, only Smith & Wesson makes a .357 Magnum. Other firms make guns chambered for the .357 S & W Magnum cartridge.

Many people would appreciate a quality single shot pistol for popular handgun cartridges. They would be fine for plinking, targets, and fun shooting. Also for precision long range work, and ammo testing with scope sights. One chamber perfectly aligned with the bore, with no gas escape between the chamber and barrel, would have an accuracy and velocity advantage over a revolver.

Tingle has some good design ideas. He said he could tool up for around \$12,000. I haven't inquired, but if someone offered to finance tooling, he might be interested in filling this void in the handgun field. The workmanship on the Black Powder model is proof he could meet the requirements of accuracy fans. I've long thought there was a demand for a good single shot pistol, even if it sold for more than a good revolver. Let's hope one is available soon, no matter who makes it.

New Bullets

Jurras Bullet Co., Shelbyville, Ind. (write for catalog) have new .22 Jet .223" bullets in 35 grain H.P. and 36 grain S.P. Designs are similar to the Sisk-Bellah .224" 37 grain H.P., except the flat nose is larger, and the cavity is half as deep. I designed the Sisk cavity to extend below the jacket mouth for faster expansion or explosion. Both Jurras pills have jackets that cover the entire bear-

(Continued on page 14)

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CROSSFIRE

The Armed Citizen

Many readers send clippings of news stories about citizens who have thwarted criminals by timely and courageous use of guns. We cannot possibly print all of these, but this writer speaks for us and for many readers in a letter accompanying a clipped news story of a bank robbery halted by armed citizens in Washington, D. C.

I was pleased to note by this story that average citizens, who some lawmakers claim are incapable of protecting themselves, have here done an excellent job of doing just that! I think the men mentioned deserve great credit. Had they been prohibited by legislation from using these weapons to apprehend the robbers, it would have taken lengthy and expensive procedures of the law to do so.

Like many others, I had not been fully aware of the fact that we are slowly being deprived, by insidious legislation, of the right to defend ourselves. Many articles in

your magazine have brought this fact to my attention. Many thanks for this, and for a fine publication.

John C. Steinberger
Washington, D. C.

Hurrah For Maryland

When Howard McClanahan of Temple Hills, Md., cashed a check in the bank in Accokeek, Md., he wondered why the usually friendly teller wouldn't speak to him. As he turned away from the teller's window, he saw a man holding a gun. McClanahan walked out of the bank and headed for a hardware store.

In the store, McClanahan phoned police while the store owner, Robert Perrygo, loaded guns. Armed with shotguns and revolvers, McClanahan and Perrygo and Richard L. Knowles of Clinton, Md., returned to the bank. Knowles went around to the back of the bank building just as the bank robbers started away in a car. Knowles cut loose with

the shotgun and hit the car twice. The car crashed, and the bandits leaped out.

The chase rounded the corner of a gas station, where Homer Gibson, 50, slid out from under a truck and grabbed his gun from the truck cab. When the police arrived, the bandits were spread-eagled on the gas station's concrete driveway, guarded by Gibson, Perrygo, McClanahan, and Knowles.

As Bayne Brook, a County Commissioner, said later, "We people down in Southern Maryland just don't stand for that sort of thing." Hurrah for Maryland, and for a posse of sturdy citizens with guns!

Curtis Morris
Washington, D. C.

That Stovepipe Business

Regarding the "Trail & Target" column (June, 1962), if you can allow your gun muzzle to sway 5 inches and still hit a 5-inch bull at 50 yards, you're a better man than I am, Gunga Din!

Carl J. Lucas
Sparta, Wisconsin

What T&T said was, "...provided you maintain that perfect sight picture." A bullet fired straight down a given line cuts the bull at 3 o'clock. A bullet fired straight down a line five inches to the left of that first line cuts the bull at 9 o'clock.—Editor.

Help Wanted

My wife and I have recently moved from Canada to California and find that we are not permitted to own guns because we are not American citizens, even though we were thoroughly screened by police of both countries. This is disconcerting in view of our keen interest in guns.

I am interested in joining a Fast Draw club. Are there any Fast Draw clubs in the Beverly Hills area, and do any of them have guns and holsters available until we can buy guns and rigs of our own?

Donald Daniels
9051 Briarcrest Lane
Beverly Hills, California

What Happened to Albert Manton?

I am seeking the aid of your readers in tracing Albert Manton, a grandson of the celebrated English gunsmith, Joseph Manton. Albert Manton married a girl named Nellie Flanagan and then left Australia for the United States sometime in the 1870s or 1880s. For some reason unknown, he changed his name after reaching the United States, taking as his surname the maiden name of his grandmother (Joseph's wife), which was Aitkens.

Most of Joseph's direct descendants are in Australia and I have succeeded in obtaining a great deal of material concerning their early pioneering days in this country, from which I hope to present a family biography. I would like to include as much information as possible regarding Albert's fate in the U.S.A. I would be most grateful for any assistance.

Colin A. Young
Box 8, C.P.O.
Sydney, N.S.W., Australia

Here We Go Again

I have enjoyed GUNS for a long time and anxiously await each new issue. You are lucky to have Col. Askins writing for you; he is surely one of the most experienced gun



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Superior efficiency and dependability at modest price. Extra-wide, clear, sharp field of view. Nitrogen processed and guaranteed fog-free. With Crosshair, Post and Crosshair or exclusive new Duplex Crosshair (ill.). **\$59.50**

GUARANTEED FOG PROOF!






LEUPOLD VARI-X 3X9
All-purpose fog-free hunting scope with continuous adjustable magnification from 3 to 9 power to fit type of terrain, size and range of target. Micro accurate friction type windage and elevation adjustments. With Crosshair or exclusive new CPC Reticle (ill.). **\$89.50**

Dot reticles also available for \$5.00 additional

LEUPOLD SCOPES & MOUNTS

LEUPOLD & STEVENS INSTRUMENTS, INC. DEPT. G-9 • PORTLAND 13, OREGON

writers around. However, his latest about Army riflemen being bum shots made me very sad. Askins made some good points:

1. Army targets don't much resemble the enemy. This is true. I have field-stripped many enemies and have found that the X-ring, if present at all, is not well defined.

2. The Army is 40 years behind the Marine Corps. In the Corps, firing is done from behind barricades, from rooftops, foxholes, through windows, at targets uphill, downhill, to left or right, at unknown ranges. We shoot at pop-up targets, concealed or camouflaged, and also at moving targets. Tracers are fired at distant targets at night, by flare lighting. Once a year, we fire the qualification course. This gives the Marine confidence in his weapon.

L/Cpl. Daniel M. Vichorek, USMC
Jacksonville, North Carolina

Biggest Woodchuck

In reference to Mr. Kloppenborg's claim that he holds the record for the biggest chuck killed in the U.S., I am enclosing



some photos of a chuck I shot in Dutchess County, N. Y. The total weight was 19 lbs. 3 ounces. Any statement you may require to substantiate my claim would be sent to you at your request.

Alex P. Toyos
Brooklyn, N. Y.

Speak Out

Thanks a lot for printing the two very fine letters by Mr. & Mrs. Milton C. Raven of Lake Stevens, Washington, and Mr. Paul F. Potter of Villas, N. J., in the May issue. These folks are true Americans, and I'm glad that we live in a country where we can voice our views when we feel like doing so. I think that more people should voice their views against Communism.

I hope that more Americans will let their thoughts be known. A lot of us think it would be too much trouble to write letters that would help the American cause. My hat goes off to such people that in these trying times that take the time to say what they think to the public.

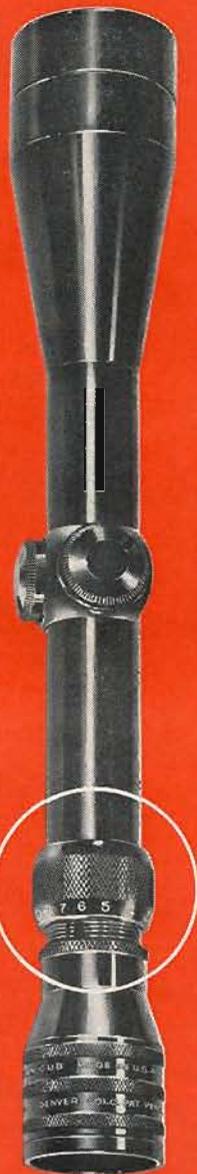
Willis Custom Reloading Service
Concord, N. C.

Behind the Front

I have enjoyed GUNS Magazine for three years and keep my back issues for reference.

I believe the article "Look Behind the Front" by Col. Busbey should be printed in every magazine in the country and read by everyone in the U.S.A.

Jack F. Young
Ventura, California



REDFIELD GUN SIGHT CO.

1325 So. Clarkson, Denver, Colo.

(To the shooter who wants to know what's new, better and different in Scopes, Mounts and Sights.)

This is the new Redfield 3x-9x Variable

that will out-perform any known variable scope on the market. It features internal adjustments and a centered reticle which, at low power, is thick and well defined . . . but will cover less target as power is increased. (U.S. & Foreign Patents Pending)

**PRECISION VERSATILITY
AT ITS VERY BEST.**

\$99⁵⁰ ONLY with standard crosshairs ("MCH" 1" at 3x, 1/2" at 9x, or "HCH" 1 1/2" at 3x, 1/2" at 9x); or at \$9.00 additional; Post and Crosshair; or Dot (3" at 3x, 1" at 9x).

The World's Most Wanted Scope

Note the new **STReamline** Split Rings!

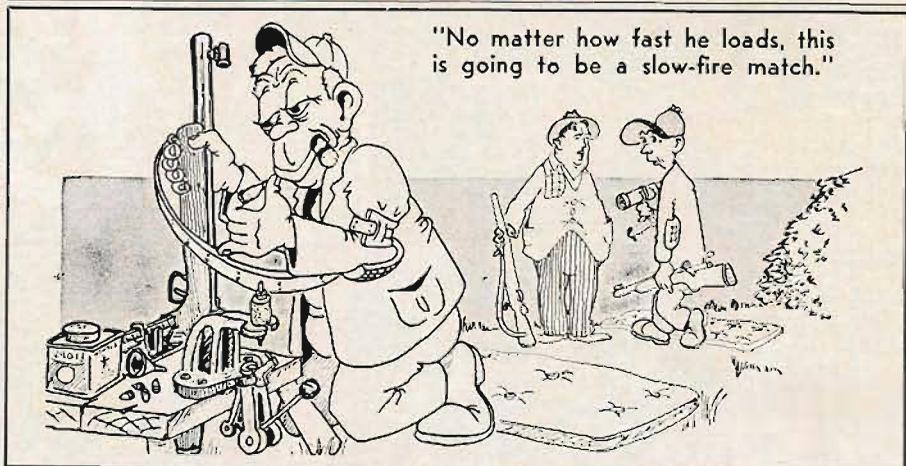


They're interchangeable with any Redfield JR or DL bases. Precision rotary dovetail engineered to 4/10,000th inch! No screws to shoot loose . . . proven dependability, gleaming, glossy-black finish, smooth and trouble free.

JR STR low ht.—\$14.00 pr; medium or high ht.—\$15.00 pr.

DL STR low ht.—\$11.25 pr; medium or high ht.—\$15.00 pr.

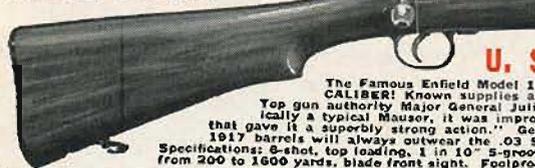
Redfield also manufactures the finest iron sights for hunting and target shooting. Your shooting information is incomplete if you don't have Redfield's compact 1962 catalog. Write:



\$100 Puts YOUR Hand on these KLEIN'S BEST BUY!

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EXACTLY AS ISSUED!
Perfect Big Game Rifle



U. S. Model 1917 Rifle—30/06 Springfield Cal.

NEW MATADOR DOUBLES! SAVE \$50.00 . . . ONLY \$119.50!
\$189.50 Value

The Famous Enfield Model 1917 is the LOWEST PRICE RIFLE in the MOST DESIRED 30/06 SPRINGFIELD CALIBER! Known supplies are very limited—more are not likely to be available!
Top gun authority Major General Julian S. Hatcher in Hatcher's Notebook says of the U. S. Model 1917 Rifle—"basically a typical Mauser, it was improved in several respects, and has a bolt and receiver of high grade steel. It gave it a superbly strong action." General Hatcher further says—"many tests over the years have shown the Model 1917 barrels to shoot better than the 03 Springfield barrels."
Specifications: 8-shot, top loading, in 10" S- groove 28" barrel with sharp clean rifling, rifle overall 46.3". Peep sight adjustable from 200 to 1600 yards, blade front sight. Foolproof safety. Turned down bolt. American Walnut stock and hand guard with sling swivels. All milled parts, perfect shooting condition!
C20-T32. 30/06 Rifle made by Edystone. Pay \$1.00 Down, Balance \$1.51 a Week for Only 22 Weeks. \$29.95
C20-T34. 30/06 Rifle made by Remington or Winchester. \$34.95
C20-T1000. Ammo. 30/06, 156 gr. 120 rounds. \$7.20; With rifle. \$58.00

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\$29.95
CASH OR CREDIT
BALANCE \$1.51 A WEEK FOR ONLY 22 WEEKS

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30-30 or .35 Rem.



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With RECOIL PAD. SWIVELS SLING. PRICE CUT \$25.07!

THIS IS FOR YOU: For every man who knows a solid \$25.07 savings on the most wanted lever action rifle made . . . and you not only get big savings but given with every rifle are a factory mounted recoil pad . . . and a fine sling!
Select oiled Marlin pistol grip stock. Famous Marlin Micro-Grooved barrel. Hooded ramp front sight, adjustable open rear sight, receiver drilled and tapped for adapter mount (furnished for tip-off scope bases. 20" barrel. fittings. State choice of 30-30 or .35 Remington caliber. \$69.88
C20-T773. Certified \$94.95 Mfr's List. Pay only \$1.00 down, balance \$3.60 a week for 22 weeks, or \$94.88
MARLIN 336C WITH 4X SCOPE—Mounted . . . Ready to shoot! Famed Tasco fine quality 1" diameter 4X Scope with hard coated magnesium fluoride lenses, click stops for windage and elevation adjustments. Tip-off mounts for quick, simple scope removal. Scope is nitrogen filled to prevent fogging. Leather lens caps included. Scope has crosshair reticula. MARLIN 336C, 4X SCOPE, MOUNTS, RECOIL PAD, CARRYING STRAP, SWIVELS. Compare at \$139.70 elsewhere! \$94.88
C20-T774. Pay \$1.00 Down, \$4.91 a week for 22 weeks, or \$94.88

303 Br. Terrific Bargain!



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ENFIELD SPORTER—NRA EXCELLENT!
AVAILABLE WITH OR WITHOUT SCOPES . . .
Amazing low price due to huge special purchase from British Air Ministry! The finest lot of Enfield No. 1, Mark III Rifles we've seen . . . and possibly the last of this quality that may be available for a long time! Buy with complete assurance your gun will be mechanically perfect . . . with clean sharp rifling . . . with smooth, oiled fine-grained Walnut stock with little appreciable wearing of wood. Sinterized stock has good clean lines, balances well—permits fast handling. Rear sight adjustable for windage and elevation, blade front sight. Turned-down bolt, brass butt-plate, 10-shot removable clip, sling swivels. 44 1/2" overall. 303 British Cal. \$119.50
C20-T197. MATADOR FOR 2 3/4" STD. or HI-VELOCITY SHELLS. State choice of 12, 16, 20 or 410 Gauge and 28" or 30" Mod. and Full Chokes. Pay \$1.00 Down, \$6.19 a Week for 22 Weeks, or \$119.50
C20-T199. 20 GAUGE MATADOR FOR 3" MAGNUM SHELLS. 28" or 30" Mod. and Full Chokes. Pay \$1.00 Down, \$6.19 a Week for 22 Weeks, or \$119.50
C20-T132. 42 GAUGE MATADOR FOR 3" MAGNUM SHELLS. 32" Full and Full Chokes. Pay \$1.00 Down, \$6.24 a Week for 22 Weeks, or \$119.50

NEW! FINEST 9 TRANSISTOR WALKIE-TALKIE

Perfect for Hunters, Fishermen, Farmers, Campers, Police Work, Contractors, Surveyors, TV & Telephone Repairmen, Sports Car Drivers.
Anyone can use . . . no license required . . . FCC Approved.
Small enough to hold . . . light enough for your pocket . . . yet ranges up to 4 miles! 9-transistors in each unit for clear performance for the serious minded outdoorsman and outdoor worker!
Do not confuse with "gimmicked-up" items having battery wearing radios and other dodgy features. Easily operated with push-to-talk switch, volume control, telescoping chromed antenna. 2 night batteries included . . . cheaply and easily replaced anywhere. Plays to 1500 hours intermittently. Rugged grey metal housing with bakelite handle. 2 1/2" x 1 1/2" x 1 1/2" size. 2 1/4 lbs. Genuine leather case, straps, handle, Private earphone with leather case included. Cash orders shipped Postpaid.
FP90-T9715T. Pay \$1.00 Down, \$5.28 a Month for 10 Months, or \$49.88
Save More! 2 Walkie-Talkies, Only \$88.88

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SAVE \$60 NOW! But Hurry—only a few left. Brand new famed Firearms International MATADOR 10-gauge (3 1/2" shell) Magnum Double. Deep cut price due to slight change in forthcoming model. Made for F-1 by Aya of Spain. Perfect for ducks and geese to 100 yds. for fox and varmint. Shoots either 2 1/2" or 3" shells. Engraved receiver, selective automatic ejectors, double safety underlocks. Walnut stock and beavertail forearm. 41" overall. 9 1/2" lbs. \$129.50
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C20-T73. 10 Ga. 3 1/2" Magnum Shells, specify BB, 22 or #4 shot. \$7.20 for 25.

SAVE \$10.45 NOW!
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The only U. S. Military small arms made with this lines and eight in modern sports. Weights only 5 1/2 lbs. 18" barrel, 36" overall. Gas operated. 15 shot semi-automatic. Receiver sight adjustable from 100 to 300 yds. New Condition! Superbly accurate. 100% dependable. \$69.50
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Famed English Service Revolvers at less than 1/2 original cost! Favorite of all the combat forces of the British Commonwealth during World War II. Strong rugged design, double action, 6-shot, auto ejection, Parkersized finish. Very Good Condition—mechanically perfect. 8 clips furnished with .45 caliber. \$16.95
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Add \$3.00 for Special Selection desired with .45 ACP Ammo (E20-T468) \$2.50 per 50 rds.

SCOOP! GENUINE "DECK" DECOYS

Never Before at This Price!
World Famous "Decks" Decoys at unheard of savings! And brand new, latest models, fresh stock! Made by Tasco! With a twist of the wrist you can have any power you want from blowing rain to driving rain. 30-ft. Crosshair reticulated Magnesium fluoride hard coated lenses, windage and elevation click stops, parallax corrected, nitrogen filled for fog proofing. Large eye piece and objective. 1" tube, cowhide lens caps. Overall 12". 14-oz. Compare to \$12.95. Scope Elsewhere! \$34.88
B20-T168. 2 Drakes and 2 Hens \$8.44
B20-T169. 6 Drakes and 6 Hens \$13.88
B20-T170. 18 Drakes and 18 Hens \$44.88

WAR SURPLUS! 30/06 AUTO. U. S. M-1 GARAND RIFLE

Finest lot we've seen! Limited quantity! Famous World War II automatic rifle in popular 30/06 caliber. Length in NRA Very Good Condition or better. 8-shot, 24" barrel, 42" overall. Adjustable sight. Pay \$1.00 down, \$4.12 a week for 22 weeks. \$79.95
C20-T25. Only \$1.00 down, \$3.58 a week, for 22 weeks, or \$89.95
GARAND IN "LIKE NEW" CONDITION! All specially selected and certified perfect by Mill Klein! Test fired only! . . . Order now, \$89.95 these won't last!
E20-T1000. Military 30/06 Ammo, per 120 rds \$7.20; with rifle \$58.00

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B20-T693. \$1.00 Down, \$1.77 a week for 22 weeks, or \$34.88
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WAR SURPLUS! U. S. SPRINGFIELD M1903—30/06

SPRINGFIELD M1903! LIMITED QUANTITY! Most popular military rifle for sporting use of them all! . . . and this lot are all Model 1903-A1's with high number Nickel-Steel receivers, milled working parts. Made in Rock Island Arsenal—not commercially assembled. 30/06 caliber. 5-shot magazine. Adjustable rear leaf sight, blade front sight. 43 1/2" overall. 8.69 lbs. American War Stock. Good to Very Good Condition.
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U. S. Government 1917 Service Revolvers. .45 ACP caliber—8 half-moon clips included. 5 1/2" barrel. Blue finish. Good condition inside and out. Easily worn \$50. Limited quantity. Pay \$1.00 down, \$1.25 a week for 22 weeks. \$24.95
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Wesson Victory Model revolver expertly rebarreled to .38 Special caliber. Very Good or Better Condition. Rifling sharp and mechanically perfect. Square notched flar sight. 6-shot, 30 oz. Walnut grips. lanyard swivel. Pay \$1.00 Down, \$1.25 a week for 22 weeks. \$32.88
E20-T996. 5" Barrel \$32.88
E20-T997. 2 1/4" Barrel. \$34.88

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This identical suit sells for \$18.88 and more in America's largest stores! \$7 off—only at KLEIN'S!
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Check every feature of this deluxe all-purpose Inner-Outer sport suit—we've never seen this quality at anywhere near this price! Rugged 2-ply automatic water repellent Du Pont Nylon outside—50 denier Nylon lining . . . Full 6 oz. (per sq. yd.) virgin Du Pont Dacron Fiberfil quilted insulation—comfortable in mild or severe weather. Heavy duty jacket zipper. Extra large utility pockets plus slash-type hand warmer pockets. Smartly shirred back with hi-swung shoulders. Snap closure on trousers—elastic waist—elastic collar and cuffs. Tan color. Sizes: 3M (36-38), Med (40-42), Large (46-48) and Xtra-large (50-52)—state choice.
B20-T1885. Klein's Low Price. \$11.88
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Ultra Light! Ultra Warm! Perfect for hunters, ice fishermen, skaters, skiers, sports fans, anyone outdoors, over underwear or slacks and sports shirt. Outer material closely woven snag resisting fabric. Inner and snuggly lined Parka Poplin. Dacron insulation enclosed in Nylon and quilted to prevent shifting. Scientifically bonded to prevent blowing through lining or outer shell. Full-length 2-way zipper front. 6 roomy pockets—1 zippered, half-pinch pocket. Elasticated hip swivel bag, adjustable snap fasteners on leg cuffs, bulky knit collar with snap fastener tab; knit cuffs and breast pockets. State your suit size (34-48) and color, Antelope Brown, Hunters Red. \$18.88
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For the hunter who wants the least expensive way to a Magnum rifle, the Norma .308 MAGNUM is the answer.

The .308 Norma Magnum cartridge fits the standard .30-06 length action. It's easy to have your .30-06 rifle magnumized, simply see your favorite gunsmith.

With moderate breech pressures, the .308 Norma Magnum gives this kind of powerful performance:

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Both the New .308 and .358 are available as handloading components with the "maximum life" unprimed case.

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George L. McNicol Ltd., Vancouver

(Continued from page 8)

ing surface, turning over the ogive. Both are deadly in the Jet case, backed with 10.5 grains 2400 and CCI Magnum pistol primers. The H.P., of course, gives more violent expansion. Bases are quite sharp. You may buckle cases during seating, unless case mouths are well chamfered. I don't recommend rifle primers in the Jet.

Hornady's new .223" Jet in 40 grain blunt S.P. is a darn good one with the same load, with long range accuracy. It has a radius on the base for easier seating, that also reduces finning. It gave good results in a Harvey Kay-Chuk with 10.0 grains 2400, which is a top load, or the same charge in a Hornet rifle, which is not a top load. Use rifle primers in the rifle.

Hornady created an improved spire point, introduced with his 140 grain .264 in September, 1961. Results were so good he will use a similar design for all spire points in the future. The best point length for different calibers and weights will be determined by the best ballistic results. This will prevent a point being too long or too short in relation to overall length. The new shape "looks" better, if you value that feature. I don't. But I do think it's an improvement over the excellent bullets Hornady made in the past, especially for longer accurate range. Give their new secant ogive design a fair trial, and I'm sure you'll agree.

Hornady does much creative thinking. He's experimenting with a shallow and very wide hollow point for their Short-Jacket revolver bullets. He may have an accuracy advantage over some cavity shapes, combined with adequate expansion for hunting. I'll report on these after I've done extensive testing, if they are put in formal production.

Expansion can be increased by drilling noses of bullets with a Forster-Appelt Precision Case Trimmer, using their Hollow Point Attachment. This most versatile of all trimmers has been my favorite since it was introduced. It now has an improved "L" shape base rail. This is faster to use and more convenient than the old "Y" shape, and it's much easier to move the bearing or collet housing. The Forster-Appelt people are clever chaps, and do superb work.

A California lad used a stiff load of H-240 in a .44 Magnum. He got sticky cases when he switched to CCI Magnum pistol primers. He felt the primers were at fault, which they were not. He merely got better ignition, burning more powder in the bore rather than ahead of the muzzle. The CCI Magnum primers give hotter and longer sustained heat for a more uniform velocity spread, without excessive pressure due to the primer compound. Fast, perfect ignition is more desirable in a cartridge than in an automobile. You know that worn and dirty points and plugs require more gasoline and reduce performance. The efficiency of a load doesn't depend on the powder charge if you get weak, slow or erratic ignition. With perfect ignition you'll get more efficiency with lighter charges.

New W-W Fodder

Winchester-Western claim their new Mark 5 shotshells give greater range and improved patterns. They really do! We tested 12 gauge Super-X 1¼-4 and Xpert 1½-7½, and found patterns averaged around 6 per cent better than older equivalent W-W stuff. This is a whale of an advantage on birds or clays, and especially to reduce cripples and misses at long range. The simple secret is a ¾"x2" polyethylene collar that encloses the shot charge in the bore to reduce or prevent shot deformation. It simply gets more shot to the target without increasing the load. The plastic strip is approximately .015" thick. (Shot dents prevent an exact mike reading.) Hulls are excellent for reloads. This stuff will be in demand, and you can bet fur, feathers and clay will fly! W-W made another advance in shotshell efficiency.

W-W was not first with jacketed bullet loads for .44 Magnum caliber rifles, but they were first with this type bullet in a hollow point. The Super-X Hollow Soft Point load grouped in about 1¾" at 50 yards in a light, fast handling carbine, which is darn good accuracy for this type of rifle. The cavity extends to the jacket mouth. The jacket is strong and thick, and would probably take .458 Win. Magnum velocity. Expansion is about right for medium game, or police use, with a carbine. The 240 grain flat nose slug packs a wallop like an Irish shillelagh. Try it, and see for yourself.

These shoot well in .44 Magnum revolvers. Bullets expand to about .75 caliber, in moist sand. Shocking power is mighty powerful, but a bit less than Super-X Lubaloy Gas Check loads, due to the heavy jackets. We left one round chambered while firing 30 rounds. Bullet creep due to recoil inertia was absolutely zero! Slugs are lacquered and cases crimped tight. The charge is 23 grains W-W Ball, probably identical to the discontinued W-W 295HP canister powder. At least identical charges give these premium grade bullets the same center of impact at 100 yards.

When Harvey's Jacketed Jugulars, "The Most Deadly Bullets" came out, I predicted a similar type would be used in premium grade factory loads. The W-W version has a much tougher jacket and alloy core, with a long jacket and no sharp shoulder. They are not a copy of Jugulars, but are a factory breakthrough in .44 hollow point bullets that can be fired in revolvers. Let's hope the hollow point jacketed bullet trend spreads to include .22 Jet and .357 S & W Magnum cartridges in fast expanding types for revolvers. Varmint hunters need these.

W-W's new ammo is "bug free." I don't like cannellured cases for reloading, and don't know why the deuce they make them. However, these took four hot reloads without damage. The neat 20-pack boxes are real handy to carry and will be appreciated by shooters and reloaders. Congratulations to the great W-W firm for their progress in shotshell and metallic cartridges!

WORLD'S FINEST STOCK
NOW—"LEFT HAND" STOCKS FOR
SPRINGFIELD, FN, 98, M70, AND
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- ② Federals are loaded with full count, highly polished shot and the best quality smokeless powders.
- ③ Federals feature the exclusive Al-tite® cushion Wads, the perfect gas seal for uniform patterns.
- ④ Federal's extremely stable, patented primer assures instant, reliable, uniform ignition.

FREE! HUNTING BOOKLETS

Send a postcard for one, or all four, of these helpful booklets. Please order by number: "How To Get Your Duck" (No. 420), "How To Bag the Upland Fliers" (No. 421), "Federal Hunters' Pocket Record" (No. 444), "Inside Facts on Shotgun Shells" (No. 450). Address Federal Cartridge Corporation, Department 319, Minneapolis, Minn.

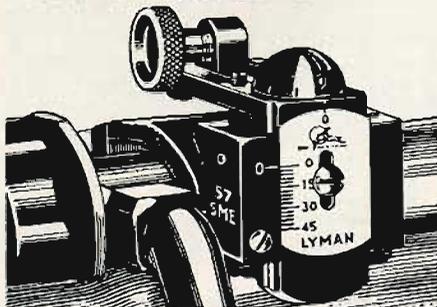


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GUN RACK



As We Go To Press: The .256 Magnum Is Here!

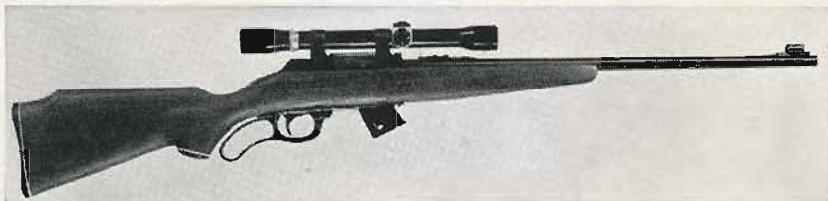
WHEN Winchester introduced their .256 Magnum cartridge in April, 1961, there was no gun to handle it. As announced, the .256 was a handgun cartridge, and a powerful one. But the first .256 gun to hit the marketplace is going to be a Marlin rifle. Shooting one of the pilot models indicates that it's going to be quite a rifle.

Another .256 will appear very late in the year . . . a Ruger handgun. However, not even a pilot model has been made available as we go to press. We'll tell you about it later.

Meanwhile, in addition to the .256, Marlin is also chambering the new rifle in .22 Jet, giving you your choice of .22 or .25 caliber.

power scope must be used; the recoil is too much for the inexpensive .22 scopes), the .256 averaged just over an inch for five shot 100-yard groups—excellent accuracy for a sporting rifle. Handloading the .256 produced results that closely paralleled the factory ammunition. Loads used were 16 grains 4227, 17 grains 4198, and 15 grains 2400, all with the Speer 60-grain bullet, using CH dies. Cases were neck-sized only, and 4 or 5 reloads per case were fired with no difficulties.

Of considerable interest was the way the .256 performed with 87-grain bullets. Loads were 14 grains 4227, 15 grains 4198, and 12 grains 2400, with 87 grains Sierra bullet. (The reloader



Both the Jet and the .256 were developed by necking down the .357 S&W Magnum revolver cartridge. The Jet was developed by Smith & Wesson and Remington for the fine S&W Model 53 sixgun . . . a real powerhouse. Even so, the Jet looks more like a rifle than a handgun cartridge; and the .256, by Winchester, looks even more so.

The .256 has been given up for dead by many shooters and some writers. But the .256 is here now, and many shooters are going to be glad it is. According to Winchester, the .256 with its 60-grain bullet develops 2200 fps muzzle velocity and 650 foot pounds of muzzle energy from a special 8-inch pressure test pistol barrel. According to Marlin ballisticians, the cartridge turns up 2830 fps in a 24-inch rifle barrel.

Both the .256 and .22 Jet Marlin rifles are made on the company's basic Model 57-Magnum "levermatic" actions. It was necessary to re-design the breech bolt to handle center fire cartridges, and certain receiver modifications were also made. Barrel and magazines, of course, are different from those employed for the .22 rimfire magnum.

The new rifle uses a Marlin Micro-Groove barrel, and accuracy is excellent. With 4X Marlin scope (a high-

is cautioned that these loads worked well with the rifle I used; they may or may not work in your rifle, so be sure to cut charges before starting.)

It looks as if the 87 grain bullet should perform well to at least 200 yards. If so, this will be a most excellent load. The lighter 60-grain bullet is good, but the added weight and better length-to-diameter ratio of the 87 grain pill will make it better.

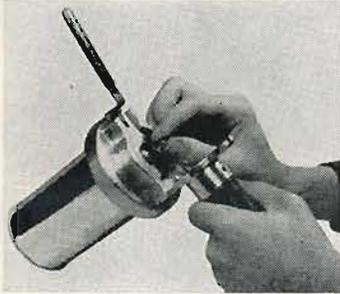
Winchester's factory load is now a 60 grain hollow point bullet, presumably similar to the old .25-20 repeater bullet. It should be very deadly on good-sized varmints.

The Marlin .22 Jet rifle develops 3,000 fps in a 24-inch barrel with factory ammunition. Accuracy is slightly more than minute of angle, which should make the Jet an excellent mid-range varmint rifle.

When you consider that both the Jet and .256 were developed as handgun cartridges, and that both were around for a year and a half before a rifle was made for them, the whole situation is a strange one. But we now have a pair of rifles that appear to be excellent performers. Neither detailed specifications nor prices were available at press time, but an "editorial guess" of around \$75 should be fairly close.

Target Launcher

The Targeteer is a power-actuated beverage can thrower that can provide a whole lot of fun. Firing the can is done with the help of a .22 short rim-fire blank, and learning to handle the Targeteer is no trick. Built solidly and for hard use, we took ours to the range for some fun shooting. Beverage cans had been filled with colored water, and the effect of a load of #2 from our Model 12 blasted the fast-moving target in a most satisfactory fashion. Using .22 rim-fire shot shells in a revolver produced some spectacular effects, and cans thrown on a steep slope of our gravel pit-range gave us some fast shooting, similar to moving game shots. Starting with a rifle loaded and on safe, a can was launched up the steep and very high wall of the pit without warning. Snap the



gun to the shoulder, moving the safety off simultaneously, and then try to hit the wildly bouncing can with four fast shots.

Shooting your big game rifle this way can be fun, but it also can be frustrating when you don't even get near the target with your four shots. Ammo will disappear faster than when punching paper targets, but at the end of the summer, you can be a real moving-game shot with the help of the Targeteer. Selling for \$23.50, you can get yours in most gunshops, and pick up some ammo while you are there—the Targeteer is going to help your game score, but you will need lots of ammo!

More Hornady Bullets

Joyce Hornady has released his new 7 mm. 120 grain spire point bullet with secant ogive two calibers long. This new design will replace the current 120 grain spire point and should become a favorite with varminters.

For the .45 ACP, Hornady now makes a 185 grain semi-wadcutter—and they do a fine job on the range. A word of warning might be in order while discussing the .45 caliber bullets. The .45 ACP has a diameter of .452, the .45 Colt diameter is .454, while the .45-70 bullets have a diameter of .458. These bullets are not interchangeable!

With the increased popularity of the .264 Winchester Magnum, Joyce has moved forward in his bullet design. His latest bullet—and more and more of them will change to the new shape from the previous spire points—has a secant ogive spire point 2½ calibers long, and has a radius twice that of the tangent radius. This means improved ballistics performance due to the longer and more pointed nose of the bullet. In the field, this form is expressed by improved retained velocity and energy at the longer ranges.

On paper at 100 and 200 yards, the groups obtained with the new bullet did not materially alter when the old-style pills were used; groups in this case were meaningless (Continued on page 63)

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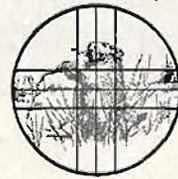
The versatile V8 is a continuously variable-power scope, for long or short range shooting—in wooded or open country—at all kinds of game. The Weaver V8 gives you a true all-purpose hunting scope—plus these fine features:

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At lower powers, heavier outer crosshairs enable eye to pick up reticle quickly, and square aperture brings eye to center, or aiming point. At higher powers, fine crosshairs within aperture are used at extreme ranges, or when aiming at small targets. Multi-Range Reticle is optional at additional cost.

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THE WORLD'S MOST USED, MOST PROVED SCOPES



19 Texas Rangers; only

Back around the tail-end of the 1800's, a lawman generally had three fixtures: badge, moustache and Winchester.

Yet, in this rare photograph, we see a Texas Ranger (he's fifth from the right) holding what seems to be a Krag.

The other eighteen run true to form, braced up by their model 1895's.

We asked an old-time Ranger about this maverick. He said he's never even heard of a real rifleman who didn't own a Winchester.

But maybe the local gun store had just plain

"run out." Or he lost it in a poker game. Or a shady gent had "borrowed" his horse — with his Winchester still in the saddle scabbard.

Obviously our man with the Krag is uneasy. A man who has once owned a Winchester is uncomfortable with anything else.

If a man couldn't buy a Winchester, he usually got one—one way or another.

Some Indians would even trade a squaw for a Winchester. Plenty of frontier cavalry up and bought their own if they weren't issued; twenty-five dollars was a lot of cash to a trooper that got



18 Winchester. Why?

about fifty cents a day from the paymaster. Fact is, a man *needed* a Winchester. It was a lot of rifle.

Things along these lines haven't changed too much. Today's Winchesters are still a lot of rifle. And a real outdoorsman still needs one. Men have been known to own several.

True, you probably can't trade your squaw for one, but on the other hand, how long has it been since somebody's stolen your horse?

In frontier times, Texas Rangers, Indians, cowboys, horse soldiers, sod busters and dudes liked Winchesters best for the same reasons men

who work a rifle hard today like them best.

A Winchester is tough. It's a hard, straight shooter with Winchester or Western ammunition. And it can take it rugged.

You don't own a Winchester? Why?

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A limited edition of a specially printed reproduction of this collector's item photograph is available for 25¢ for handling and mailing. You will also receive a free 1962 Winchester-Western catalog, showing the full line of guns and ammunition. Write *Winchester*, Box 8006, New Haven 4, Conn. *Win a \$5,000 Winchester and other prizes. Information and entry blanks at your dealers now in states where contests are valid.*

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**Guns
EXCLUSIVE**

WILL THIS GUN

Maser was successfully fired by Bell Lab staff from Holmdel, N. J., and was received via phototube by other Bell men 25 miles away.

Since the dawn of human intelligence, man has searched for speed and more speed for his projectiles. It took centuries to progress from lobbing rocks from catapults to propelling bullets at speeds of over 3,000 feet per second. . . . But targets kept pace with the bullet, flying faster and higher.

Today, missiles flying faster than any bullet carry payloads of destruction. Not only is it impossible for any known bullet to catch such a missile, it would be a

major miracle if any bullet could intercept it. Many have said that there is not, could never be any defense against such a weapon.

But here is a "bullet" that makes even earth-orbiting missiles seem slow, a bullet traveling at the ultimate speed known to science, the speed of light. It is not a weapon to wreck cities. It could be the weapon to halt the wreckers of cities—giving man new hope for his own existence—a weapon to obsolete the atom!

OBSOLETE THE ATOM?

LIGHT HAS ALWAYS BEEN MAN'S BEST FRIEND, MAY NOW BE HIS BEST DEFENSE AGAINST ATTACK THROUGH SPACE FROM WEAPONS THAT COULD WRECK HIS WORLD

By LAIRD HARDING

IF THIS STORY BEGAN (as it very well might) with the flat statement, "Death-ray guns are here!" there would be one school of readers who would sneer, "What are you giving us? Science fiction?"—and another school who would dash out to the nearest Army Surplus store to buy a Buck Rogers Special.

You won't find any fast-draw ray guns for sale in Army Surplus or elsewhere. But don't let that sneer harden to such a point that it can't be wiped off painlessly, either. What was yesterday's science fiction, or even worse—fantasy fiction—is today's reality in many areas. If you think ray guns are not reality, you just haven't been reading the right journals.

And why not? Science didn't stop short when it discovered the atom. A surprising lot of scientists are only indirectly interested in atoms, as weapons. They have been searching quietly (oh, so quietly!) for a weapon that would neutralize the atomic weapons. And it should make your sleep tonight somewhat more peaceful to know that there are scientists today who say (still very quietly, but very confidently), "We think we have found it." It is even reported that some such weapons are already in operation—not hip-holster models, but big stuff, waiting for big targets.

—Photos courtesy of Bell Telephone Laboratories & Hughes Aircraft.



Bell scientists at Murray Hill plant maintain telephone contact with Holmdel during optical maser experiments.



Hughes Aircraft scientist demonstrates company's light weight and highly portable laser that fires narrow and brighter-than-sun beam of light with highest accuracy.

WHEN TARGETS FLY TOO FAST...

Ray weapon research and technology is centered on counter measures against incoming hostile ICBMs. The problem here is—speed. In the days of World War II, our anti-aircraft weapons had somewhat the same edge on enemy planes that a hunter has on a loping buck. The hunter's bullet, traveling at some 1,500 miles per hour (2200 feet per second) can catch the buck between jumps. Ack-ack had a similar advantage in speed over its aircraft target. But when space-flying missiles boosted the target speed to some 20,000 miles per hour, the advantage shifted. How much do you lead a target flying ten to fifteen times faster than your bullet?

But suppose you had a "bullet" traveling 186,000 miles per second? That is the speed of light—the absolute ultimate in speed, so far as we now know—and light is the "bullet" we are now using.

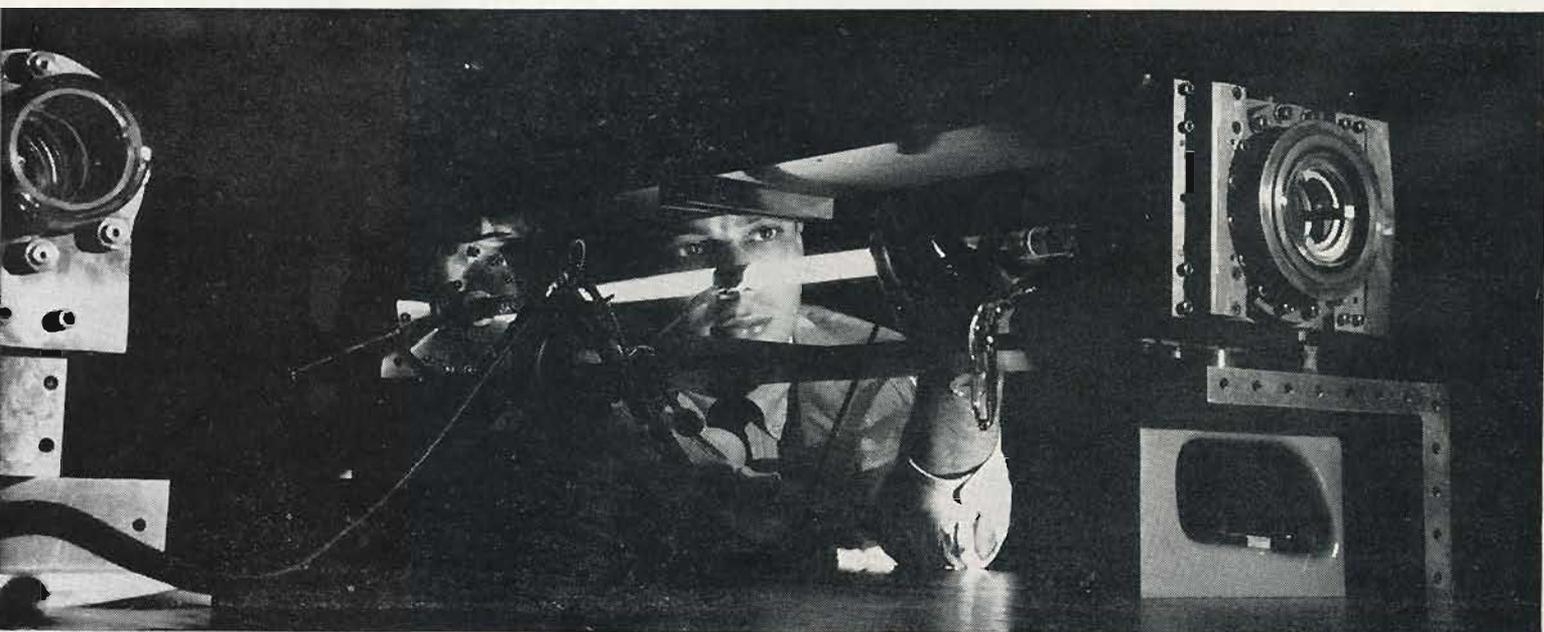
The military is playing its cards very close to its chest on this subject, as they should. But let's get one thing straight: this article does not spill any military secrets. You can get the same information, from the same sources, without ever even an introduction to a man in uniform.

Let's start at the corner drug store, yours or mine. You're glancing through the 1962 "Information Please Almanac," and you run across this under "Science in 1961":

"Masers are typical of a branch of science—solid-state physics—that soared to a dizzy peak in 1961 . . . The maser . . . has important, descendants, too. One of them, the laser (light maser) generates a peculiar kind of light whose waves are all exactly the same length and march exactly in step. A beam of this peculiar light,

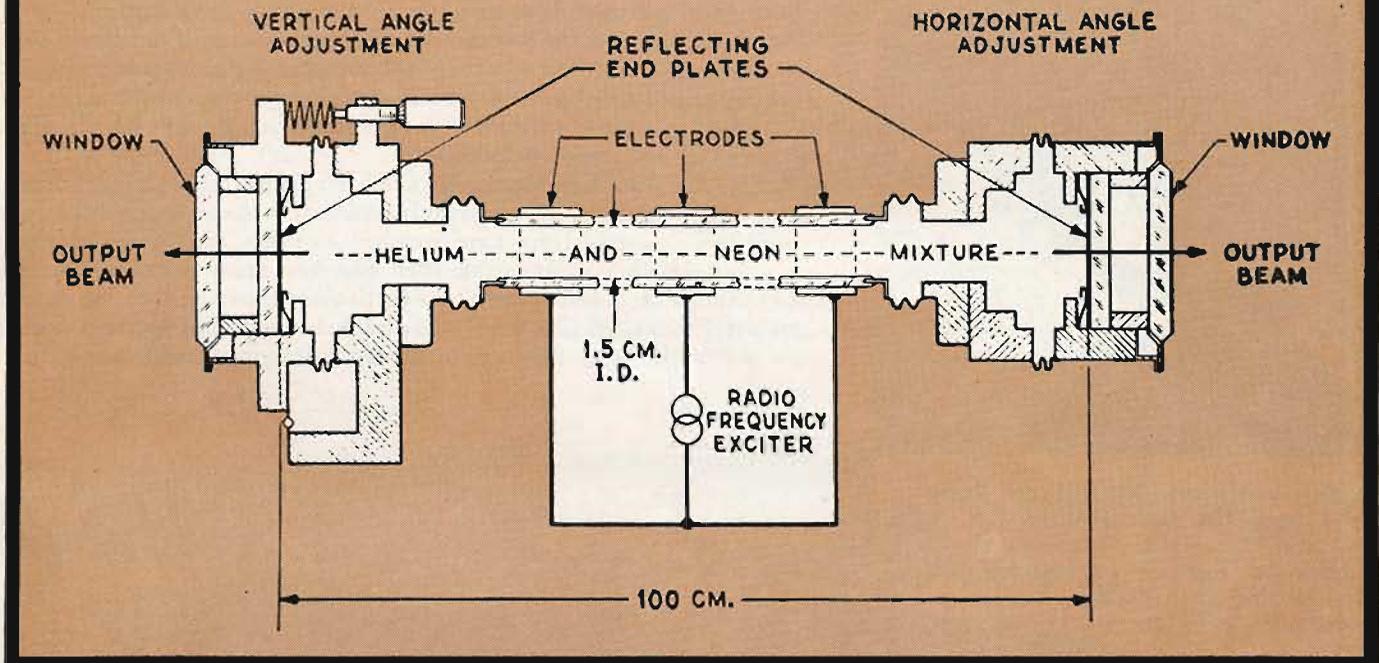


Tube, containing neon and helium, is essential part of optical gas maser. System emanates a continuous stream of coherent light that has a spread of less than one minute of arc, shows up as a spot of light one foot in diameter on wall a mile away. Masers have varied uses.

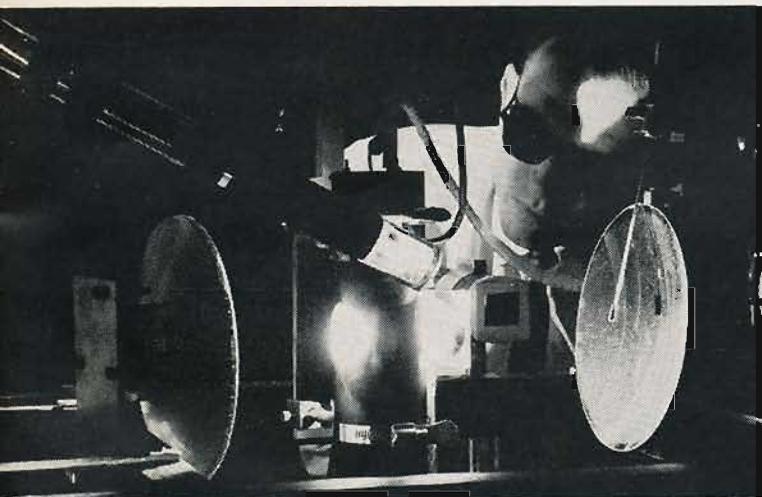


The invention of the new gas maser by Bell Labs' A. Javan was a "planned scientific discovery." All complex parts were calculated in advance by occult mathematics, and the device performed as anticipated on first trial tests.

GASEOUS OPTICAL MASER



Operation of gas maser depends on correct mixture of neon and helium gases to supply an active medium. The radio frequency exciter supplies the medium with energy. The beam is built up by repeated passes between end plates.



Bell Lab's continuously operating ruby light maser has concave mirrors to intensify light pumping. Mercury arc light is further concentrated to "buzz" the chrome atoms.

which scientists call 'coherent,' does not spread out and dissipate like an ordinary searchlight beam, but keeps its brightness for hundreds of miles...

"The laser, which has several forms, has not been perfected enough for practical use, but its inventors are sure it will eventually revolutionize many kinds of science... There is some chance that it can be made into a sort of death ray to attack airplanes or missiles."

Interesting? I thought so. So I hotfooted it to the local

library and started plowing through the magazines. After a while, I discovered this in the February issue of "Dun's Review" published by Dun & Bradstreet:

"The optical laser is an electronic gadget with potential uses in products as diverse as satellite communications networks and Buck Rogers-type death rays... One laser product (a needle-thin light beam) is already being used for delicate eye operations." The writer quotes a doctor as saying, "The effect of the beam on eye tissue is like cooking the white of an egg." He then notes: "The ability of laser beams to cook tissue has suggested to some scientists that they may be the basis of a powerful 'death ray' that has long been in the arsenal of science fiction writers."

Next, I visited several specialized research libraries and ran across a market letter put out by a brokerage firm. In a special issue devoted to the growth stock potential of the laser-maser concerns it lists many and, identifying one in particular, states: "Among the diverse scientific projects on which the company is working are lasers, with particular stress on the 'death ray' aspects. Reportedly, the company is developing a weapon capable of beaming a million degree ray 200 miles to atomize any enemy."

Finally, I found, in a technical library, published reports by authoritative electronic industry spokesmen that in the middle of the winter, the Office of the Director of Defense Research and Engineering formed an ad hoc optical maser committee, composed of representatives from the DOD, Institute for Defense Analysis, ARPA (Advanced Research Projects Agency) and others. The committee was to report to DOD's Advisory Group on (Continued on page 60)



Unless you know what you are doing and have the tools for the job, it is best to leave revolvers alone. Side-plate removal is accomplished by tapping, not prying. Repairs of handguns is a job for the experts.

DON'T BE A Gun Butcher

**SCREWDRIVERS THAT
DON'T FIT DO MORE HARM
THAN GOOD IN THE HANDS
OF UNSKILLED OWNERS**

By BOB WALLACK

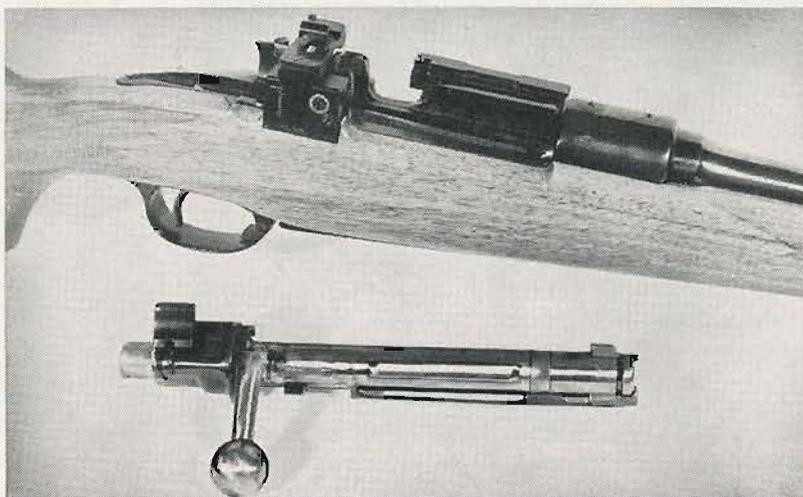
EVER SEE a fine gun in a rack and then discover that every screw head is marred? Ever see a rifle or handgun with scratches and gouges that were the result of some bungled attempt to take the gun apart? More guns are ruined this way than in any other fashion. At least they are ruined as far as original appearance and value is concerned.

It's far better never to take a gun apart, even if the gun is used a lot, than to damage it by misuse. But I dare say not many of you will be able to resist taking them apart now and again, for one reason or another, if only because you love to handle them. If so, here are some pointers.

The worst offender by far is the simple tool called a screwdriver. Although they are very handy and indispensable tools around the home, screwdrivers have wrecked as many screws as they have driven. A gun nut can't ever have too many screwdrivers. He should fit a screwdriver to a particular screw and then use it only for that particular screw size and screwhead. Buy the best drivers you can find; those tempered too soft or too brittle are useless.



Bolt-action rifles can be cared for easily and only bolt removal is needed. Don't remove metal from wood unless gun gets drenched.



Buy them slightly larger than you need, then file the blade to fit a specific screw.

The most ornery screws to handle are those found on good double shotguns. These have very thin, long slots and since no drivers are made to fit them, you have to fit your own. It takes quite a while to do a good job of fitting the blade to these slots, but the effort is well worthwhile. In the first place, such screws are extremely tight and only a well-fitted blade will do the removal job. Anything but a good fit will cause the blade to squirm out of the slot and mark the screw head. Then you're through. Screws on top grade shotguns just can't be replaced except at high cost, and no amount of work will ever restore the damaged screw to its original look.

Incidentally, if you're buying a used gun, the screw-heads are a good place to look first! Sloppy slots mean sloppy work on someone's part and indicate the likelihood that some incompetent person has been tampering with the

gun. There may be other damage, less visible but possibly more important.

If you are fortunate enough to own a good double gun—and a double is the most difficult gun to work with for the non-professional—do not try to take it apart yourself unless you are competent. It shouldn't be necessary to take the gun apart more than once a year—after hunting season. Then, if you don't think you can handle the job—and if you have any doubts, the answer should be negative—take it to a good gunsmith and let him handle the periodic overhaul jobs. Note that I said a "good" gunsmith. Good ones are few and far between, and a gun butcher will ruin the gun quicker than you will, so be choosy.

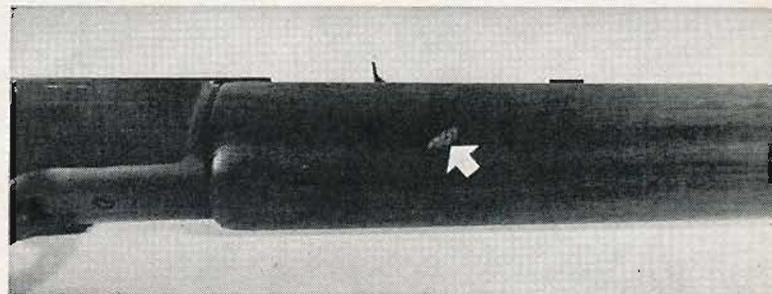
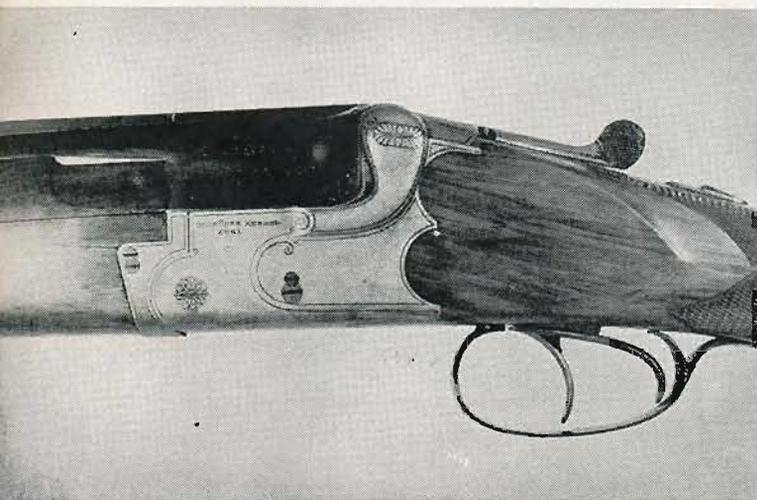
As a matter of fact, unless your guns get a good dousing, it's wise to follow the once-a-year disassembly routine. That's often enough under the usual circumstances. Careful cleaning, proper oiling, and careful reassembly will keep things in working shape. My own (Continued on page 44)

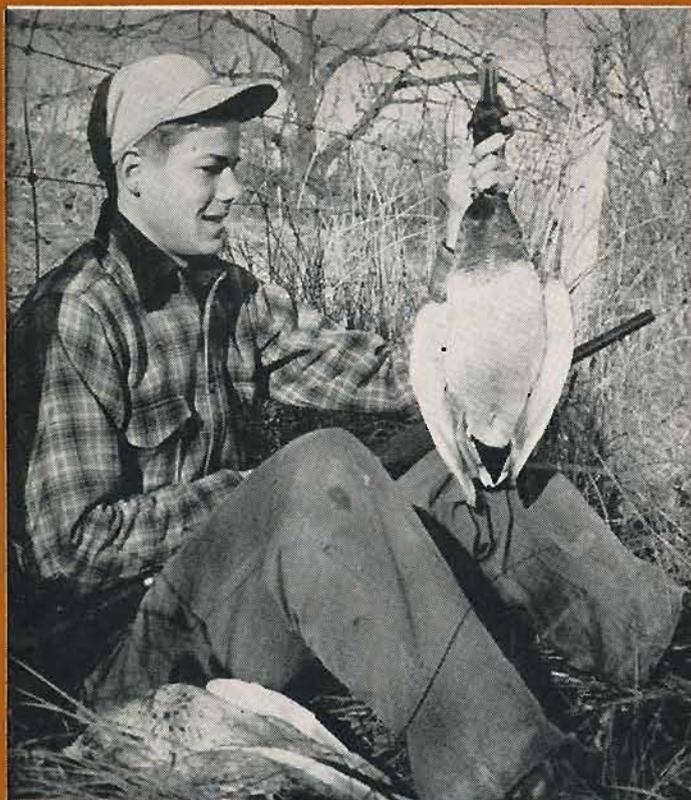


Double shotguns usually have screws with very thin, long slots. A filed down screwdriver is essential, and it must fit slot properly. This L. C. Smith was ruined by screwdriver.

Author's O/U Merkel is an old gun that has seen much use, but doesn't show its age. Good care without a screwdriver is the author's secret.

Dents like this in the wood may be unavoidable in rough field usage. Remove finish, then steam out the dent. Refinish the repaired spots. If you have done a neat job, it will be hard to see damaged area.

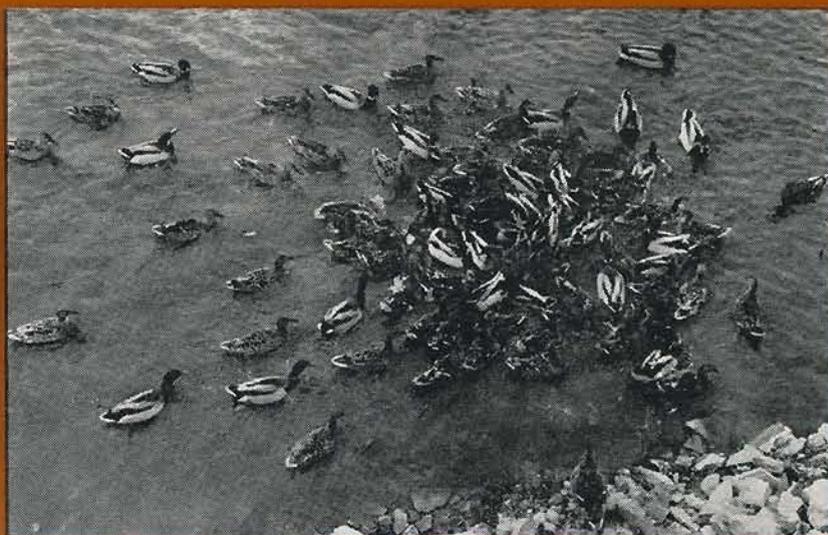




Author's son John admires a pair of hefty mallards he collected. Hunting companion Red proudly poses with a limit of mallards, Browning shotgun, and retriever Jake.



**THERE ARE DAYS WHEN DUCKS JUST SEEM
TO KNOW HOW FAR A GUN REACHES**



The greenhead mallard is the king of North American waterfowling. Flight of mallards found this fresh-water shrimp bed good picking.



After a start long before dawn and a busy morning in the blind, a warm lunch is just the ticket. Here John Popowski waits for chow.

THE DRAKES CAME DOWN

By BERT POPOWSKI

THE MOST UNPOPULAR MAN in any wild-fowling area is the sky-buster—the hunter who persistently shoots at birds beyond the sure-killing range of his gun. Even the best shotgunners produce a percentage of unavoidable hit-but-not-bagged birds; neither guns, gunners, nor shot patterns are perfect. But to cripple deliberately by shooting beyond the capability of the gun and/or the gunner is a moral crime no sportsman will commit.

But sometimes the temptation is very great. When flight after flight of luscious mallards wing over just ten, fifteen, or twenty yards outside your reach, you begin to feel that virtue as its own reward is a bit below the union wage scale. Are you going to get yourself a duck dinner, or must you just sit and mutter in your beard?

"Red" Watt and my son, John, and I got into just such a situation on a mallard hunt along the Platte River flood-water dikes east of Omaha. A 70-mile stretch of river there is a game refuge, and don't think the ducks don't know it. They'd feed in the cornfields and, just about legal shooting time in the morning, they'd start filtering back in scattered flocks, hitting terminal velocity as they passed above us, then slanting down contentedly into the sanctuary. It was

sporty and exacting shooting. Weather had a distinct bearing on how high they flew; some mornings with little wind, they flew high, hopelessly out of shotgun range. But if the day was rough at dawn, we could usually depend on some flocks trying to substitute speed for altitude in getting past the gun gantlet.

This was a rough enough day, all right, but the mallards had been shot at on other days and were gun-shy. Some flocks were much too high, others were just at or just beyond the outside reach of our patterns, none were down where we could be really sure of clean kills. It was frustrating. John was some distance above us, and we'd seen him drop a couple of birds, but Red and I were unhappy.

Red turned to me and offered a solution. "Bert, what if we both shot together, at the same drake? Wouldn't the doubled density of the shot pattern, plus double shock, make up for that extra yardage?"

Every wingshot has seen cases where hunters doubled on the same bird, bringing him down as if struck by lightning. Now Red was proposing that we do it deliberately.

"No harm in trying," I decided. "Next flock that comes through at what seems to be (Continued on page 56)

Shooting for Tanganyika Game Control, using guns and loads of his own design and make, John Buhmiller has earned respect of pro hunters. At 70, he will go to Africa again this year



Buhmiller killed a 55" kudu during '59.

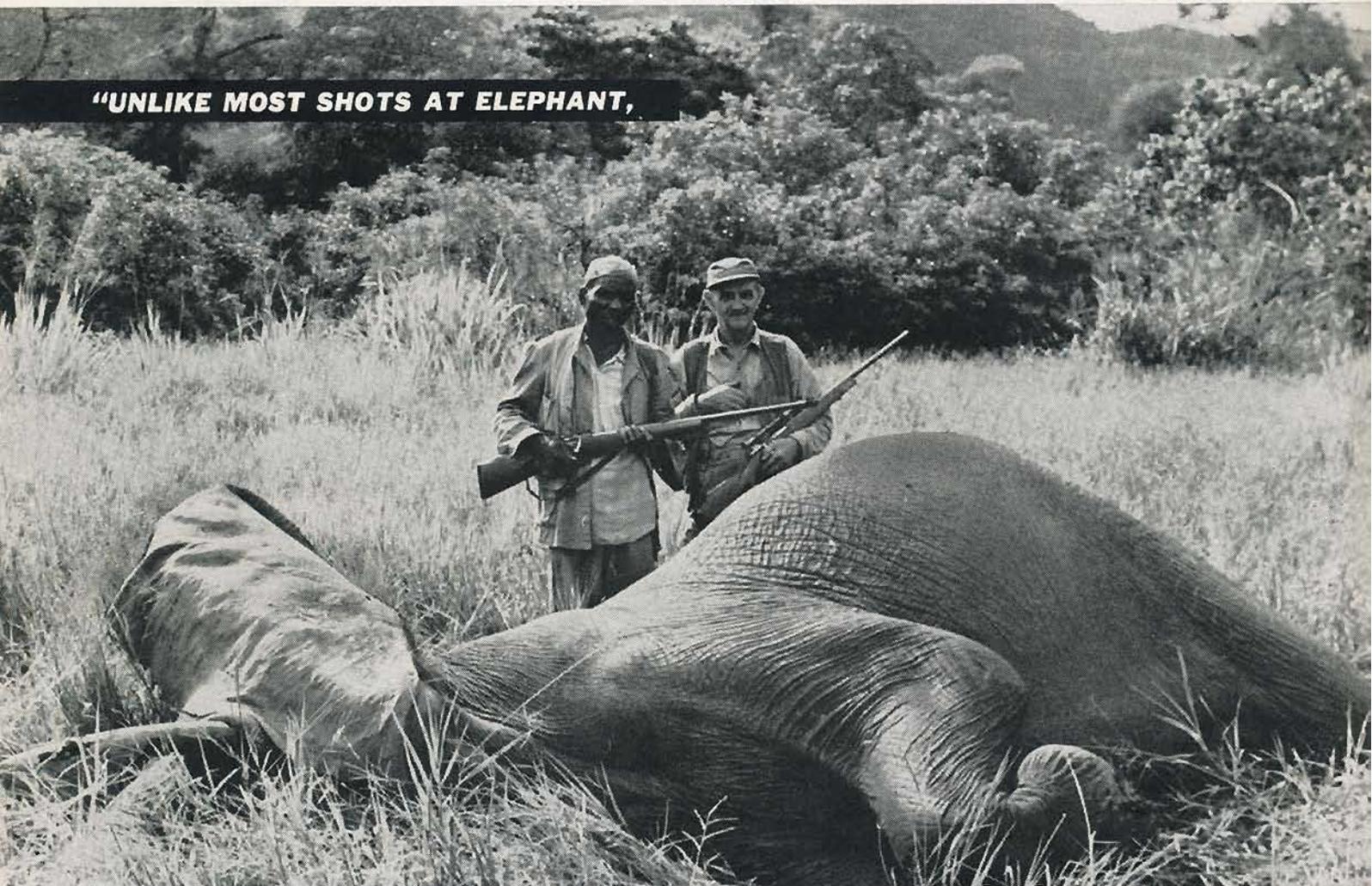
By COLONEL CHARLES ASKINS



John inspects Zulu warrior's spear point during hunt in South Africa.

THIS MAN HAS KILLED

"UNLIKE MOST SHOTS AT ELEPHANT,



"... this big cow was caught in the open. The .375 I'm holding is scoped, but I use open sights in the brush."



Ivory (top) is the result of first day's 1959 hunt. Tusker, right, was one of four killed near maize field. Man on left is a farmer who came visiting, carrying a gun.



164 ELEPHANTS ...

IF I WERE CALLED UPON to name the most remarkable hunter in the United States today, my vote would go to a man better known as a maker of rifle barrels than as a game shot — to John Buhmiller, of Kalispell, Montana. No other American has equalled Buhmiller's life-time record of 164 elephants. Of these, 154 tuskers (not to mention 35 buffalo and 15 rhino) were killed after John was 63 years old—a time of life when most shooting men are content to relax in a rocking chair with their memories.

Seven years ago, at the age of 63, Buhmiller closed up his shop and set out for Africa. He landed at Nairobi and moved south into Tanganyika, coming finally into the Manyara district, where he met an Englishman named G. C. Thom. Elephants were giving farmer Thom a lot of trouble; they were eating him right out of business. Buhmiller had laid down 490 good U. S. dollars for two tusker licenses (all that they allow in one year), but Thom needed help, so John went out and busted the first two bull elephants he encountered. This frightened the pachyderms out of Thom's field for maybe as much as four days.

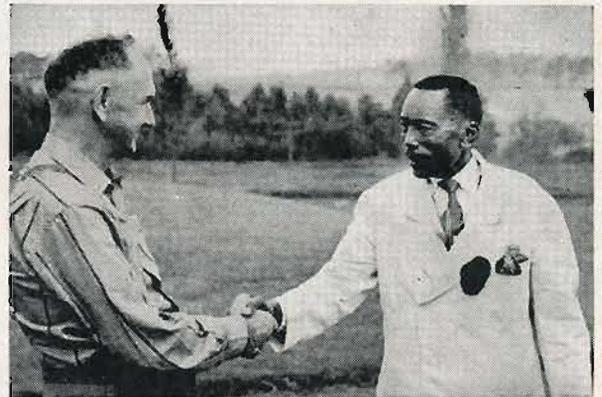
"Why don't you get the game department to send some control hunters here to shoot some of these beasts and save your crops?" Buhmiller asked.

"I've tried. Their hunters are all busy elsewhere," Thom answered.

"Tell you what I'll do," Buhmiller offered. "You go see the boss game warden and tell him I'll stay here a couple of months and shoot enough elephants to drive them out of your fields and those of your neighbors."

Since then, John Buhmiller has made three more trips to Africa, staying from two to three months each time and hunting as an unpaid member of the Tanganyika Game Department. All ivory goes to the department; Buhmiller gets nothing except the excitement.

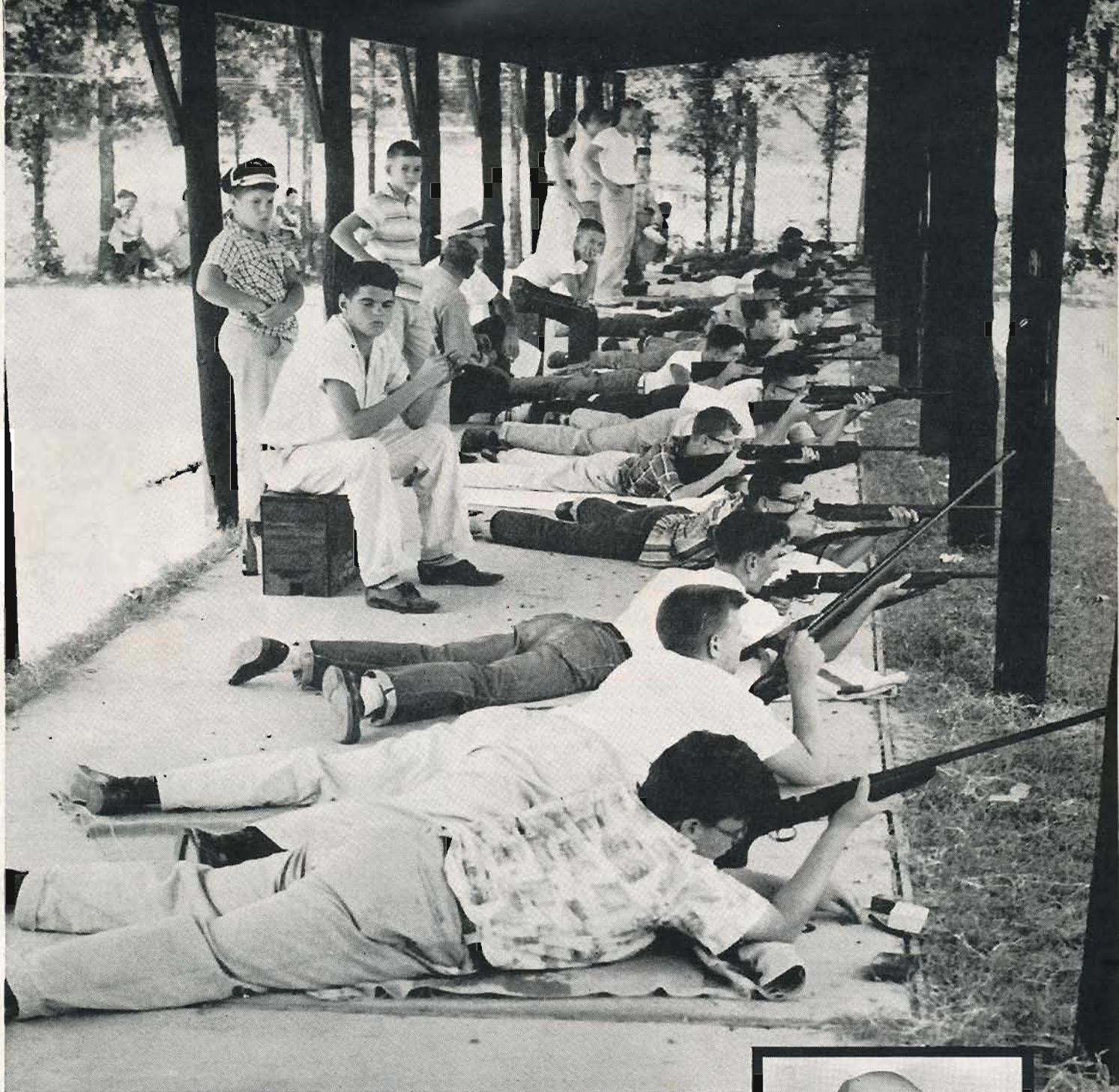
Now, hunting elephant is hard, dirty, dangerous work. Buhmiller makes little of his adventures but, as an elephant hunter with a trifling score of seven tuskers, (*Continued on page 45*)



Buhmiller met fabled Karamoja Bell's former gun bearer who joined safari as a Lumbwa youngster.



Small South African buck was shot by Buhmiller. East African dik-dik is much smaller than this.



Club started with a membership of eight in 1955, has grown steadily ever since. All boys between the ages of 12 and 17 years are eligible to join.

Junior Rifle Clubs ... **ACTION-NOT WORDS**

By ROBERT DYMENT



Sheriff J. Howell Flournoy of Caddo Parish, Shreveport, Louisiana, founded the rifle club.

IN SHREVEPORT, AS IN EVERY CITY THAT HAS TRIED THEM,

POLICE SHOOTING PROGRAMS FOR KIDS REDUCE JUVENILE DELINQUENCY

"JUVENILE delinquency can also be called adult delinquency. We all know that for a fact. Whenever you see a boy or girl who has gone wrong, you may be sure that some adult associated with him or her has gone wrong first. Our boys and girls learn to be bad from or because of our adults, just as they learn to be good from or because of those who lead them.

"Therefore, I believe that one of the biggest and most important jobs of law enforcement agencies is the work of winning the citizens, particularly the young citizens, to the side of law and order.

"And the teaching of respect for law enforcement for our youth is not altogether a responsibility of parents. It's a duty and responsibility of the law enforcement officer himself."

So says J. Howell Flournoy, Sheriff of Caddo Parish, Shreveport, Louisiana, who practices what he preaches. Realizing that active young minds and bodies require "action" in addition to knowledge obtained through talks and lectures, Flournoy, in cooperation with the Caddo Rifle and Pistol Club, organized and sponsored a Junior Rifle Club for boys 12 to 17 years of age—a junior rifle club that is considered one of the best in the country, and one that has helped reduce juvenile delinquency in the area.

"Just talk isn't enough. Boys and girls are more impressed by what they do and see than by what they hear. Therefore, I have made it a policy to show young people through our Sheriff's Headquarters before they join the Junior Rifle Club. I show them how we reload cartridges for range practice. I show them our armory with its riot guns, machine guns, and tear gas equipment, and explain how it is all used."

The purpose of the Junior Rifle Club is to teach good citizenship, respect for the law, and how to handle and use firearms safely for sport and pleasure. Accredited and approved N.R.A. instructors supervise and instruct all classes

of shooters, from the beginners to those who have completed the prescribed course in shooting.

Tournaments are held, with trophies and medals such as Sharpshooter, Bar Awards, Distinguished Rifleman, Expert Rifleman, Marksman, and others going to winners of the meets.

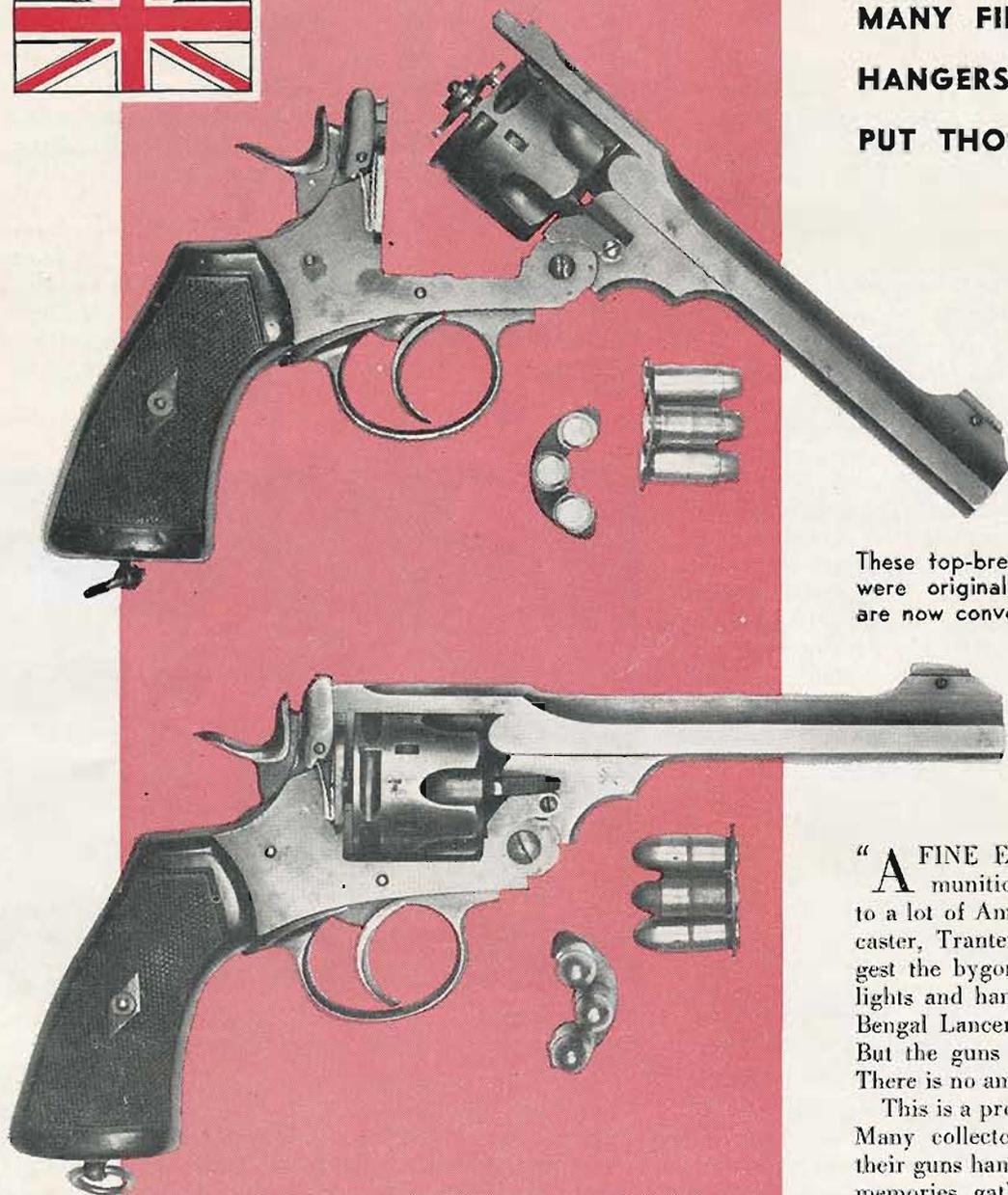
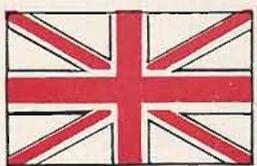
Near the end of the summer, the Sheriff Flournoy Award Tournament is held. The entire membership of the Junior Rifle Club participates, and shooters are divided into three classifications—beginners, sharpshooters, and marksmen. In addition to sunshine and exercise, the incentive of rifle training keeps the boys (*Continued on page 48*)



Sheriff Flournoy enjoys handing out the trophies and medals to the youngsters who strive hard for awards.

Caddo Rifle and Pistol Club is the home of the junior riflemen programs. Active interest of club members made Sheriff Flournoy's hopes and dreams come true, made the junior club one of the outstanding clubs of its kind in the country.





**LACK OF AMMO RELEGATES
MANY FINE GUNS TO WALL
HANGERS. HANDLOADS CAN
PUT THOSE GUNS TO WORK**

These top-break Webley Mark VI revolvers were originally chambered for the .455. are now converted to accept the .45 ACP.

A FINE English handgun—but no ammunition." It's an old story familiar to a lot of Americans. Webley, Adams, Lancaster, Tranter, Kerr—the very names suggest the bygone Victorian era, with its gas lights and hansom cabs, Scotland Yard, the Bengal Lancers, Kipling, and Conan Doyle. But the guns are silent, for the most part. There is no ammunition for them.

This is a problem with numerous old guns. Many collectors are not satisfied to leave their guns hanging on the wall, silent in their memories, gathering dust. They long to hear these old guns speak again. Others have purchased surplus Webley and Enfield revolvers at bargain prices, and they too would like to shoot the guns. Well, it's a bit of a problem, but—it can be done.

By far the most commonly encountered chambering is the .455 caliber. The cartridge was used by the British army from 1892 through and beyond World War II. It was also used extensively for target shooting in England, though recently it has been displaced by the .38 S&W revolver, the 7.65 mm and 9 mm Parabellum automatic pistol.

The .455 cartridge is accurate and quite adequate for self defense. It throws a heavier

LOADS FOR YOUR ENGLISH HANDGUNS

By JOHN W. ROCKEFELLER

slug than our .45 automatic, though at a lower velocity and with less energy.

The original service round was the Mark II type, with a charge of 18 grains of black powder behind a 265 grain lead bullet. Velocity was about 700 fps, with a muzzle energy of 289 foot pounds. According to British manuals, this round is to be used for target practice only, since rules of war prohibit use of lead bullets.

The Mark II was replaced by the Mark VI in British service. It used a charge of 6.5 grains of chopped cordite to fire a 265 grain nickel jacketed bullet at 600 fps, with a muzzle energy of 210 foot pounds. Both types of service ammunition use a balloon head case, and a corrosive primer of the Berdan type.

The .455 caliber revolver cartridge is known variously as .455 Webley, .455 Revolver, and .455 Eley. There is also a .455 Colt which differs from the .455 Webley in that it has a longer case. Lyman lists the .455 Webley case length as .750 inch, the .455 Colt as .885 inch. This longer .455 Colt cartridge was probably intended for Colt "New Service" .455's made for England.

Surplus .455 ammunition is available from Winfield Arms of Los Angeles, Hunters Lodge, and others. Price at last word was around \$7.50 per 100 rounds, express collect. This, in most cases, (Continued on page 50)



Forehand & Wadsworth "British Bulldog" chambered .32S&W, .38S&W, .44 Webley, was copy of Webley.

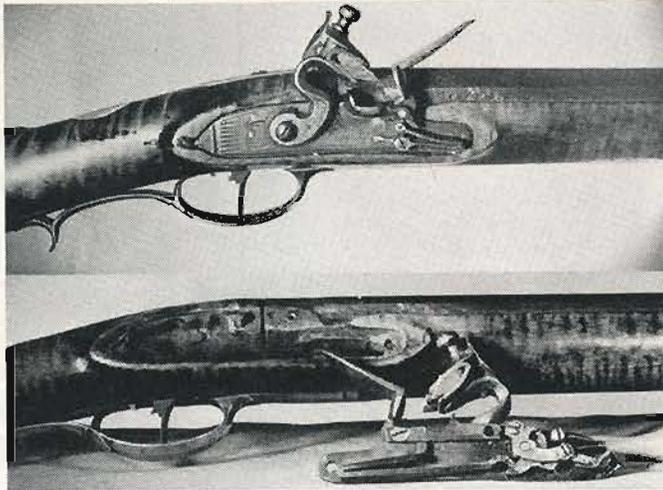


Webley Mark VI .455 revolver was the official sidearm of the army and ammo had corrosive primers.

The British government purchased many Colt New Service revolvers chambered for the .455 Colt load.

THE GUNS THAT FOUGHT OUR COLONIAL WARS

part 2



Standard Ferguson action above. Gun at left is fancy officer's model with bayonet that can be extended or retracted in groove on the under side of the barrel.

By LOUIS WILLIAM STEINWEDEL

DURING THE reign of Queen Anne, British gunmakers had devised a simple, yet sturdy service musket with a long, acid-pickled brown barrel that soon came to be known to friend and foe alike as "Brown Bess." This gun continued to be the regulation long arm of the British army from about 1703 to almost the mid-nineteenth century. Through this amazingly long era of almost a century and a half, eight million "Brown Besses" were made and it is estimated that about 100,000 are still in use by primitive peoples from the Amazon to Zanzibar.

The Bess was a .76 caliber, smooth bore, flintlock, fully stocked musket of rather awkward and unimpressive lines, a little over five feet long, and weighing 10 pounds. Ordinarily, a .71 caliber round ball was dropped in at the muzzle, requiring ramming only after the barrel had been fouled with black powder residue. This loosely fitting, easily loaded ball allowed the Brown Bess a certain

measure of rapid fire—as much as five or six shots a minute—but it played havoc with accuracy. If any aimed-for target was ever hit beyond 80 yards, it was purely accidental, and much closer objects usually enjoyed a fair degree of safety from the flaming fangs of Bess. Apparently, traditional British understatement was not at work when the claim was made that the Brown Bess could make an efficient showing on a "deer sized" target at a range of 360 feet. The size of the deer was not mentioned.

It is one of the oddest ironies of history that, although the scarce but vociferous American long rifle struck dire fear into the hearts of the musket-armed troops of King George, the British possessed at this time a gun remarkably superior to even the Kentucky. Historians tell us that if only 10,000 of these guns had been issued to English troops, the American revolution would probably be considered as an obscure incident in the history of "British North America." This seemingly "magic gun" was the brain child of Patrick Ferguson, champion sharpshooter of the sprawling British Empire and officer in His Majesty Service at the amazing age of fifteen.

Anticipating history by three quarters of a century, Ferguson had miraculously perfected an ingenious *breechloading* flintlock with a rifled barrel that delivered astounding power and accuracy at an amazing range of 200 yards! In operation, the Ferguson gun—undoubtedly the most advanced firearm of its day—was a paragon of simplicity. The breech was closed by means of a spiral screw plug which was raised and lowered to allow for breechloading by means of a small handle formed into the brass trigger guard. To load, the shooter pushed the trigger guard one half turn to the right, dropped the ball into the opening on the top of the barrel, added a measure of powder, and snapped the trigger guard into its original position. After routine priming of the flintlock, the gun was ready to fire, allegedly at the fantastic speed of eight times a minute in standing position, four or five times a minute while advancing.

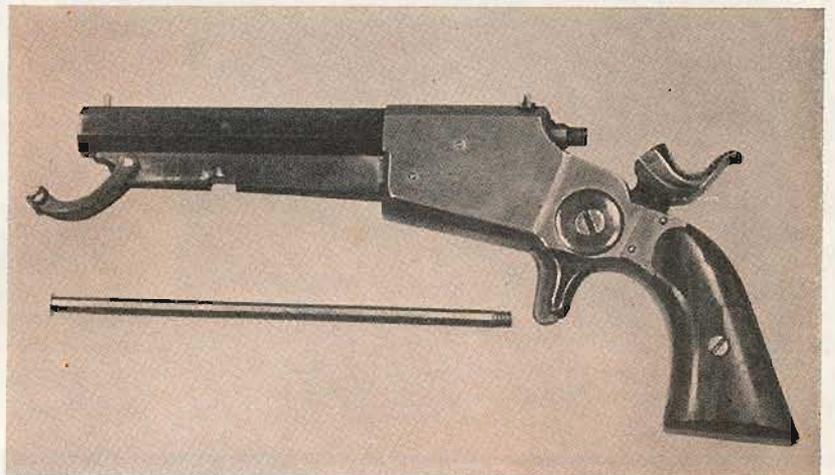
Fired by his white-hot passion against the rebellious colonists, Ferguson waged an unrelenting campaign of his own with the War Office for adoption of his progressive weapon. Eventually, he was rewarded with a modest measure of success when he and 200 of his guns were hustled off across the Atlantic to "have at the rebels." In 1777, Ferguson blasted an impressive trail across the Northeast and, two years (Continued on page 42)



NEW OR OLD, THIS HOBBS PISTOL PUZZLES
STUDENTS OF ARMS DEVELOPMENT



GUN BY AN UNKNOWN MAKER



By WALTER H. CRAIG

Intrinsic and collector's value of gun is considerable, although cash value is probably not very high. Gun was added to author's collection because of its interesting and novel design features.

BEING A pistol collector, I am always looking for new specimens to add to my ever-growing number of guns. When the E. T. Hobbs pistol was offered to me last year, I was intrigued enough by it to acquire the gun.

Marked E. T. Hobbs on the right side of the brass frame, the gun also shows the number "1" on the same side, and the letter "D" is stamped into the brass behind the hammer screw. The left side of the frame only shows the marking 22. It is assumed that this denotes the caliber, especially since the steel barrel mikes .22. Despite a thorough search of my gun library and the patent office, I learned nothing about either the gun or its maker. Circulating what scanty information I had to collectors and GUNS Magazine, a few bits and pieces of additional information were discovered.

Through these channels, I have had several reports that

other E. T. Hobbs guns were found, and it appears that all of these guns—a total of three—show minor and major design variations, although the craftsmanship is obviously identical on all guns. The gun in my possession is probably one of a kind, and it appears likely that it is the first one built by Hobbs. Recently, I have learned that an E. T. Hobbs III gun is owned by a collector in Indiana, and that in the same town a photograph of yet another Hobbs gun is known to exist. Collectors who have seen and studied the gun agree that it is original in design and concept.

Even if the gun is of recent date and the product of a hobby gunsmith, the pistol continues to fascinate me and it holds a place of honor in my collection. And every once in a while I wonder who E. T. Hobbs is or was, where he worked, and how many guns he built.



NEW 225 YARD VARMINTER: The .22 Sabre



By CHRISTIAN H. HELBIG
*Experimental Ballistics Associates
Scotch Plains, New Jersey*

Here are the steps, excepting neck annealing, needed to make .357 Magnum brass into .22 Sabre. Job is easy, case life good.

VARMINT hunters in my area have been looking for a cartridge that would be effective up to 225 yards, would not be too noisy in the settled farmland where we hunt, and that would show less barrel erosion than the .220 Swift and similar 4,000 fps cartridges. In addition to these prerequisites, the cartridge would have to be highly accurate and should be suitable for single shot

actions. The new .22 Sabre meets these specifications.

When the search for the new cartridge design began, it was kept in mind that certain case designs are claimed to be inherently more accurate than others, although steep-shouldered cases in general have not established the accuracy records their inventors would have liked to achieve. The two most popular short-range varmint cartridges are

HOW A WILDCAT CARTRIDGE IS DESIGNED



Existing loading dies can be used with a slight alteration, forming dies were made.



After forming, case length is checked for 1.290", and inside neck is chamfered slightly. Bullet seating depth is not very critical.



the .22 K-Hornet and the .218 Bee. When loaded to maximum pressure levels, they drive the 45 grain bullet at 3,000 fps and the 50 grain pill at 2,800 fps. This limits most hunting shots to about 175 yards.

I realize that many handloaders claim higher velocities. I have no doubt that they achieve them, but only at the expense of excessive pressures and shortened case life. Ed Yard and I have chronographed a complete series of test loads on the standard Hornet and the K-Hornet, but found that published data claiming 2,900 fps with the 50 grain bullet could not be duplicated without blown primers and loose pockets. One of my own K-Hornet rifles gives me 2,940 fps, but with the 40 grain bullet—and this with a max load that supposedly gives 3,100 fps! A good many loads listed for the K-Hornet, the Bee, and the R-2 Lovell fall far short of claimed velocities and when these can be attained, it is only with excessive pressures.

The next varmint cartridge that can be considered is the .219 Zipper, driving a 50 grain slug at 3,500 fps. Although a fine cartridge, the noise factor precluded its use in our hunting area. After looking over the available cartridges, I decided that I wanted something that was between the K-Hornet and the Zipper, a cartridge that would deliver about 3,000 fps with a 50 grain spitzer bullet. Most importantly, the new cartridge would have to have moderate pressures for the sake of case life. Weight increase of a bullet from 45 grains to 50 grains is only 11 per cent, but when a 50 grain spitzer bullet is used, the higher sectional density and ballistic coefficient affect remaining velocity at 225 yards—helps flatten trajectory.

In the course of looking for the ideal cartridge, I examined a number of available cartridges and wildcats. The Mashburn Bee, for instance, has a 25 per cent greater case capacity than the K-Hornet, but velocities of 3,000 fps with a 50 grain pill result in borderline pressures. The R-2 Lovell met ballistic specifications, but cases are extremely difficult to find. Shortening the Zipper case was considered briefly, but the work involved and the anticipated case life made this idea impractical. The .351 W.S.L. case was considered, but the semi-rimmed construction ruled it out. The .44 Special case would require extensive forming operations and the large body diameter would also create a very high backthrust against (Continued on page 52)

WANTED: A LOAD WITH BEST ACCURACY, LEAST NOISE, AND A MINIMUM OF BARREL EROSION

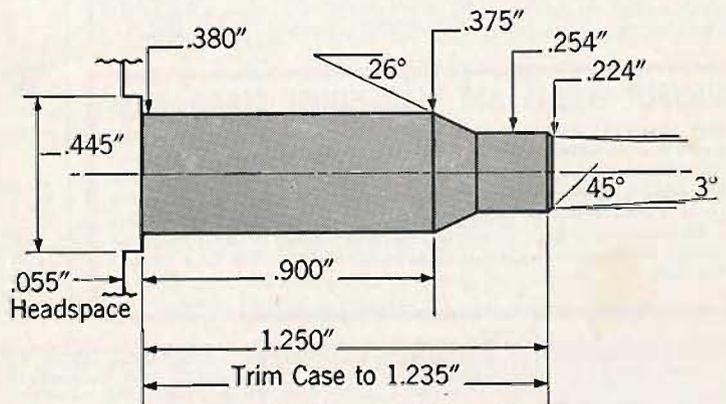


Meticulous attention to all handloading operations pays dividends when it comes to grouping. Author's .22 Sabre consistently gave minute of angle or even better groups with wide variety of powders, bullets.



All loads were first checked for excessive pressures, then for accuracy, velocity. No hot loads were used.

.22 SABRE CHAMBER



Before actual work at the loading bench began, case design was made.

WORLD'S LARGEST COLLECTION OF AMERICA'S GREATEST SHOOTERS' BARGAINS

SELECT FAVORITES!

U. S. SPRINGFIELDS!

Cal. .30-06



Low numbers

ONLY \$29.95!

IN STOCK! All in very good or better condition! The greatest of them all, the INCOMPARABLE Springfield at the lowest price ever for low numbers. These are NOT the crude, makeshift assembled jobs advertised by others; these are NOT the left-overs rotting in steaming South American jungles, but original Springfields in the finest condition ever. HIGH NUMBERS only \$39.95. HIGH NUMBERS WITH TARGET TYPE C STOCK \$42.95! New web slings 50c.

ROYAL ENFIELD No. 4 SERVICE RIFLE!

Cal. .303



ONLY \$16.95!

NEW SHIPMENT of unlimited quantities of the superb Royal Enfield No. 4 Service Rifle—pride of the British Empire—used as late as Korea! Strictly a NEW lot, all carefully inspected and cleaned prior to shipment—not the greasy leftovers as available previously. All in good or better condition and a few VERY GOOD only \$3.00 more. From Bayonets only \$1.00 when ordered with rifle. The finest of the FINEST!

ROYAL ENFIELD JUNGLE CARBINE!

Cal. .303



ONLY \$24.95!

The only genuine, true, original Jungle Carbine on the market. Insist on an original while they still last and in good condition. BEWARE of the fake, crude copies floating around these days. Be sure of the best, order now.

CUSTOM ROYAL ENFIELD M60 SPORTER!

Cal. .303



ONLY \$24.95!

A REAL professional custom conversion performed by the world-famous Cowell & Harrison gunmakers of London. COMPLETELY refinished and re-buffed with sporter ramp front sight, sling swivels and black fore-end tip. Yours now only \$24.95! The best dollar for dollar buy ANYWHERE! Insist on this conversion only.

MODEL 1911 SWISS RIFLES!

Cal. 7.5 Swiss



ONLY \$13.95!

The late model 1911 (not to be confused with the old Model 1889 models advertised elsewhere) in good condition. Some very good only \$3.00 additional. The pride of Switzerland where precision is the watchword of quality. Extremely accurate and fast almost semi-automatic with its straight pull bolt. (Swiss 7.5 Soft Point ammunition only \$1.42 per 20 rds.). Original bayonets only \$1.35.

IMPROVED M40 TOKAREV!

Cal. 7.62 Russian



NOW ONLY \$34.95!

Still another Ye Old Hunter spectacular arms coup! Fine Tokarev semi-automatic rifles IN THE LATE M40 MODEL, and at a price so LOW that even Nikita may order one! All good or much better (some very good select specimen only \$5.00 more) and complete with detachable magazine and two original take-down tools. The lowest-priced high quality semi-auto ever! A prize Western purchase ready for your order.

M95 ROYAL DUTCH MANNLICHER JUNGLE CARBINE!

Cal. .303 British



ONLY \$12.95!

Famous M95 Dutch Mannlicher system in the unique Jungle Carbine version. Complete with special combination compensator and a flash hider. Re-bored and re-chambered to Caliber .303 British in the 1940's with exotic receiver ring markings depicting the Indonesian star and date of conversion. Some equipped with British Carbine Type rubber butt pads only \$2 additional. All in good condition. The "Star of the Orient"!

SHAMROCK ENFIELDS!

U.S. MODEL 1917 ENFIELD!

Cal. .30-06



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ENFIELD NO. 1 MK III!

Cal. .303



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CERTIFICATION: with each SHAMROCK ENFIELD you are furnished ABSOLUTELY-FREE WITHOUT CHARGE, a beautiful wall certificate GUARANTEEING AND CERTIFYING the authenticity of your SHAMROCK ENFIELD by number! This certificate ALONE is worth the price however tiny you pay for these beautiful SHAMROCK ENFIELDS. It will assure their continual increasing collector and historical value for years to come! A collector's wildest dream come true at last!



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MAUSER M91 MAUSER MANNLICHER CARBINE!

Cal. 7.65MM



ONLY \$24.95!

The perfect sleek, trim fast-handling little carbine that will set the design standards for decades to come. AND IN MANNLICHER STYLE—usually grossly more expensive. Even Ferdinand Ritter von Mannlicher would jump in paroxysms of delight. All in very good or better condition with all milled parts and matching numbers. This truly must be seen to be appreciated. Carbine design at its best.

MAUSER M95 MAUSER SPORTER!

Cal. 7MM



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A superb, custom, lightweight Mauser Sporter in your favorite 7MM Caliber. The special M95 SS (Super Strength) Mauser (with the third safety lug converted to sporter specifications at one-fourth the Sporter price. Rifle guaranteed in very good condition and stock refinishing second to none. All German manufactured and all with all milled parts. Complete with adjustable rear sight, turned down bolt, sporter type sling swivels—to mention but a few of the outstanding features, many of which are NOT found on the highest priced commercial sporters! The very best for the very least!

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Just received—The bargain of our time. .38 Cal. Smith & Wesson Military and Police Revolvers re-chambered to the popular .38 Special caliber. Also completely refinished and reblued and only a measly \$54.95! Beat the run, order today!

WEBLEY & SCOTT REVOLVERS!



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Select shipment of improved .38 Webleys. These have both the single and double action design and shoot the standard .38 S&W. Only \$29.95 additional for one in NRA Excellent condition. A low bargain price for top value! **ONLY \$16.95!**

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IMPORTANT SALES INFORMATION—PLEASE READ CAREFULLY: All guns and ammo shipped RAILWAY EXPRESS OR TRUCK (Shipping charges collect) from Alexandria, Va. or Culver City, California. WESTERNERS! Save transportation costs—order direct from Ye Old Western Hunter. Service that now spans a continent! (In the heart of the Golden State.) California residents include 4% State Sales Tax on Culver City shipments. Send check or Money Order. DO NOT SEND CASH. Sorry no COD's. Regret we are unable to accept any "All Heart" Sale order less than \$5.00. "Money's Worth or Money Back" guarantee when goods are returned prepaid within two days after receipt. Ye Old Hunter will not answer acrimonious letters. Send them elsewhere. Sales limited to continental United States! Special sale prices, above, are good for month of publication only! CANADIAN BUYERS: Write direct to our Canadian Distributor, Albion Arms, P.O. Box 628, Petersburg, Ontario. Free Canadian Hunters Lodge catalog and price list. America's Greatest Bargains!



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Too fantastic to believe? Certainly, from anyone BUT Ye Old Hunter—the only frontiersman left in the arms business. The pride of Rommel's legions—Secret World War II cache of Afrika Korps Mausers discovered at last — not far from the spot where the "Desert Fox" directed his last futile campaign. A Middle East mystery solved at last only with the help of a friendly potentate who prefers Ye Old Hunter above all other hunters. The very latest in the YE OLD HUNTER series of FAMED MAUSERS!

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(Ammo in Stock)



WORLD WAR II GERMAN 98K MAUSER!



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World War II's greatest! The very latest of the famed Model 98 Mauser—the rifle often copied but never equalled. A complete, shooting rifle in the devastating 8MM Caliber at LESS than the price of a 98 Mauser Action ALONE. ALL are World War II type, with 24" barrel. Some with milled type Trigger Guards ONLY \$2.00 more. ALL carefully stored—NONE with sun-bleached stocks or remnants of desert sand. INSIST on a Mauser with a historical past—INSIST on a combat ready Mauser—BEWARE of the reject "home-guard" type monstrosities which others may attempt to "out fox" you with. Order today and let your imagination glow in the glory that was once Rommel's. There never has been or ever will be another shipment like this—there never has been or ever will be another BARGAIN like this. Be sure and take advantage of our top-grade 8MM Ammunition at the ultra bargain price of only \$4.00 per 100 rounds. PAY FOR YOUR RIFLE WITH THIS BARGAIN AMMUNITION. Remember—the more you buy—the more you save! Hurry your order—less than 50,000 unsold!



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Cal. 6.5MM
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ONLY **\$2995!**

PERSIAN M98 MAUSER CARBINES!
Cal. 8MM
(Ammo in Stock)



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WHAT A FIND! The ultimate, ultimate, ultimate Mauser 98 Carbine at an unprecedented low price. The strongest, yet trimmest carbine ever available —forunner of VZ23 and almost identical to the famed G33/40 Mauser. In top shooting shape and in good or better condition, complete with PERSIAN SUN LION CREST AND 18 1/2" barrel. **SOME BRAND NEW IS ORIGINAL FACTORY CONDITION ONLY \$15.00 ADDITIONAL AN INCREDIBLE OPPORTUNITY!** Bayonets with scabbards \$8.95!

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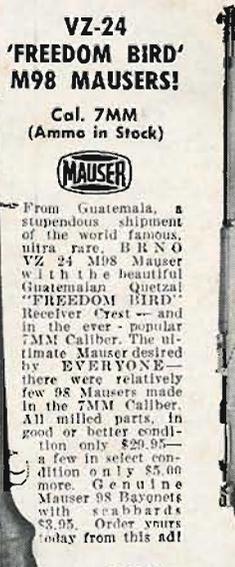


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Switching from a 16 gauge gun to a 28 gauge helped the writer to overcome a bad case of the recoil jitters. In the field, the small gauge performed well on Arizona's doves, quail, cured recoil fear.



By BILL BRENT

IT'S A JOLT in more ways than one when you face the prospect of giving up a sport you have enjoyed for many years—and that's what I faced two years ago about shotgun shooting. It hurt my pride to admit it, and it wrecked my plans for a lot of gun fun in the future, but the simple fact was—I had become allergic to recoil!

I wasn't as old as hundreds of men who can shoot full-choked 12's all day without flinching; I was only 52. Ill health had dropped my weight by some 20 pounds, leaving me less well padded than some—but no bonier than others. My shotgun "form" may not be perfect, but I'd shot thousands of shotshells through a goodly number of guns in years past, with nary a quiver. So why, now, was I consistently suffering severe headaches after shooting less than a box of shells through a well-fitted 16, with recoil pad added?

I didn't know why then, and nobody could tell me, neither the medics nor the gun experts. I don't know why now. But I found an answer—an answer that has put me back in the game fields when the ducks and the doves and the quail are flying. And, to me, that's all that matters.

The answer came the hard way, by trial and error. First, I tried one of the several muzzle brake-choke-compensator devices. The ads said it would reduce the recoil, and it did that; the trouble was, it didn't reduce the headaches. Don't ask me why; it just didn't.

Somebody suggested that I try a 20 gauge. I didn't like the idea—I'd shot that little sixteen of mine for so long that it was like an extension of my arms, and I hated to discard it. But I borrowed a 20 and gave it a work-out. It seemed to me that, perhaps because the gun was lighter, the recoil was about the same as with the 16. Anyway, it gave me the same old headache.

The next logical step would have been to try a .410, but I decided against it. I don't really know enough about the .410 to know whether I'm right or wrong, but I just figured it takes a better gunner than I am to kill cleanly, consistently, at the ranges I have established as my 16 gauge ranges, with those much-reduced .410 shot charges.

(Continued on page 54)



(Continued from page 4)

Hart, is still going strong. He was a toughie when we used to tangle on the Mid-Western trap circuit, and a recent issue of "Trap & Field" indicated he is still tough. This one issue recorded that "Hundred Straight" had broken at least one perfect century on his way to a 491x500 in the Vincennes Indiana Spring 16-yard Marathon, and that he topped off the shoot by outlasting a pack of other toughies in a shoot-off to win the big Vincennes Handicap event. His 98 from 24 yards got him in the shoot-off with Robert Allen, Ned Cantrell, and James Burgess, none of whom give up easy. He accomplished the task by going straight in the third extra stanza.

Headlines in the same issue of "T&F" proclaimed that Homer, along with another trap-wise veteran, C. R. Crawford, had paced the field of 155 singles shooters at the Maywood, Illinois club. Homer took Class A and the "Senator" took Class B.

Yep, Homer Hart is tough, and getting tougher. But you wouldn't know it if you talked to Homer. He's one of the quietest and most modest men I ever met.

⊙ ⊙ ⊙

What's in a name? Randel Livengood was "livin' good" back in April at the Wallace, Indiana, club. He took both ends of the registered program, with 98 in at 16-yards and a 92 in handicap.

⊙ ⊙ ⊙

Trapshooters are a durable lot. Want proof? Betty Ann Bixler, editor of "Trap & Field," has included a new feature in T&F, of excerpts from the magazine's predecessor, "Sportsmen's Review," dated ten, twenty-five, and fifty years ago.

One item from fifty years ago mentioned that "Homer Clark is still making big scores. In Mississippi recently, he broke 394x400."

This is the same Homer Clark (Sr.) who broke 200 straight at Vandalia one day last year, and who does it with great regularity. If anything, we might conclude that Homer is getting better, after 50 years, because he won't drop six targets in many four hundred bird events today. What other sport permits a man, or woman, to stay at the top of the heap for more than fifty years?

⊙ ⊙ ⊙

Earlier in this column, I asked what's in a name. Trapshooter Randall Fortune, from Hatfield, Indiana, shooting at Evansville's Southern Indiana Gun Club, must have decided that the name Fortune certainly did not imply good fortune. Randall was third in Class A singles by one target, second in the handicap by one target, and lost the High-Over-All shootoff by—you guessed it—one target. By this time, he probably concluded that it would have been better had his name been Mongoose Magoo.

⊙ ⊙ ⊙

The oldest, greatest, and most colorful of all individual sports tournaments, The Grand American Trapshooting Tournament, is held this year, for the 63rd running, August 20 to 25, at Vandalia, Ohio. Preliminary days, a dress rehearsal and warm-up for the fabulous and storied Grand, are August 17-18-19.

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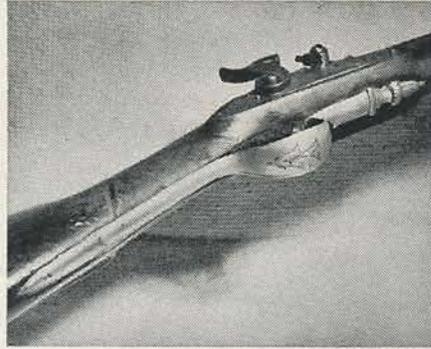


GUNS OF THE COLONIAL WARS

(Continued from page 34)

later, with the arrival of about 100 more breechloaders, he was cutting so lethal a swath through the South that he earned the unenviable pseudonym of "Butcher of the Carolinas."

Despite Ferguson's unmatched record and the gun's merits, the British government showed astoundingly little interest. So lacking was enthusiasm in the gun—it was the best in the world up to the mid-nineteenth century when the Sharps cartridge breech-loader was introduced—that less than 400 seem to have been made, and only about a dozen museum pieces still exist. In view of



Although workaday guns, many of the Kentuckies were ornately finished.

Britain's usually paternalistic attitude toward firearms invention (it had bought and issued for Indian use the far-sighted but unperfected Collier flintlock repeater), it is hard to reconcile the "royal rejection" of the superb Ferguson. In discussing the why's of the winning of the revolution, author Robert Held lists the ignoring of Ferguson's invention as one more reason why "the Americans did not win the War of Independence; the British lost it with iron determination."

Just as "The Kentucky" was the colonists' ace-in-the-hole, the Ferguson was, in the parlance of modern commercialism, Britain's "extra margin." So, as might be expected, when the inevitable clash between the two best guns in the world finally exploded, it provided one of the moments of highest drama in the Revolution.

General Cornwallis' imminent invasion of North Carolina in late 1780 electrified scores of Carolinian backwoodsmen, personalizing for them a war which had seemed far away and almost secondary. It was about 1,000 of these defenders of the homeland who stumbled against the unpopular Ferguson. Securely ensconced on the heights of King's Mountain, he boasted that "not all the rebels in America" could dislodge him. Although Ferguson had foolishly preferred to rely on the natural defenses of his position rather than erect additional fortifications, he was nevertheless backed by the potent persuasion of over 100 of his own breechloaders plus 1,000 standard muskets.

When Ferguson made his "every rebel in America" claim, he was counting on ordinary Continental troops, not the wily woodsmen of Carolina. With their brownish buckskins blending into the fawn-colored October countryside, the attackers lacked not for targets. With 1,100 brilliant Redcoats shinning in the sun like inviting crimson bullseyes, what had started out as a battle quickly evolved into

a turkey shoot for the native sharpshooters.

With Ferguson's inglorious defeat, the makeshift army promptly assumed that this was all that was required of them. Melting back into their lush wilderness, they apparently took with them over a third of the world's supply of General Ferguson's breechloaders. It is conceivable that an ancient and rusty Ferguson rifle still stands in some forgotten, crumbling Carolina cabin—a silent monument to successful failure.

Ironically, participating in the demise of General Ferguson at King's Mountain, was the father of the man who probably contributed more than any other to the immortalizing of the American long rifle—Davy Crockett. Periodically assaulting the printed page, the movie screen, and TV, the coonskin-capped Crockett—complete with his trusty "Ole Betsy"—seems to personify to a "T" the westward trek of young America. Sharing the limelight with its illustrious owner, "Ole Betsy" has its own string of tall tales, perhaps the most believable being that Crockett killed over a hundred bears with it in nine days. Over a hundred different versions of "Ole Betsy" have been exhibited in various parts of the country, each one being fervently claimed as the one which stoutly, if unsuccessfully, defended the walls of the Alamo in the hands of Colonel Crockett. Perhaps one of these hundred was the genuine article; but it appears more likely that Davy's legendary gun ended up gracing the adobe wall of some Mexican soldier present on that fateful day in 1836.

After the Revolution, which experts claim probably wouldn't have been won without the native American long rifle, the composite invention of the Pennsylvania gunsmiths went back to its original, but no less, glorious job of filling the family kettle and ferrying fearless pioneers safely across the domain of the original American. The Kentucky rifle was a flexible invention, changing with the times to incorporate improvements, such as the discarding of the ancient flintlock for the faster, more reliable percussion ignition system. As the frontier moved onto the Great Plains, the Kentucky moved with it and metamorphically adapted itself to the changed requirements of the new environment with a bigger caliber, shorter barrel, and the new name of "Plains Rifle."

As a small game or "squirrel rifle" in the Eastern as well as Western woodlands, and as a super accurate target piece, the medium caliber Kentucky continued to be made virtually unchanged up to the time of the Civil War. And even then, despite the advent of breechloaders and repeaters, the slim Kentucky continued to serve—principally the Confederacy—as a sharpshooters' rifle.

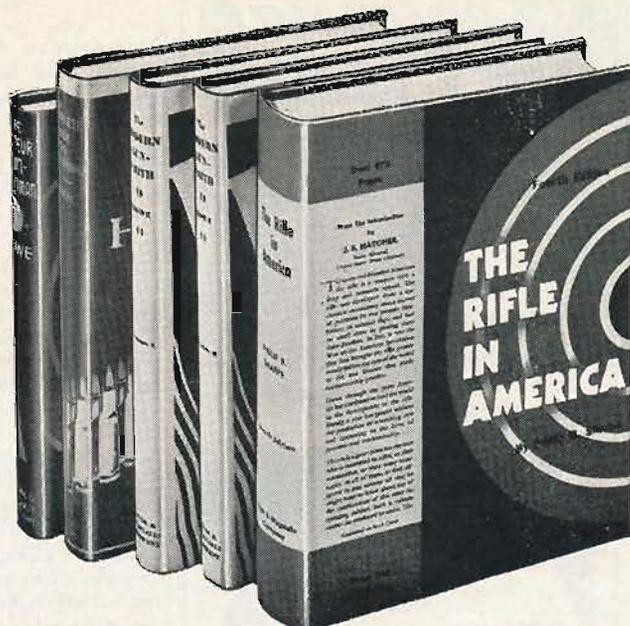
Today, there are few guns in greater demand among collectors and shooters than the beautiful, gracefully curved Kentucky rifle. Many of these guns are still active sharpshooters, putting to shame many of our modern guns. The "Kaintuck" has, through its historical usage, gained a very honorable place in American firearms history—and that is as it should be. Made through sheer necessity by many emigrant craftsmen with great ingenuity, the Kentucky rifle helped, in some measure, to form our Constitution—the right to bear and keeps arms.



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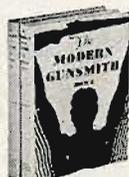
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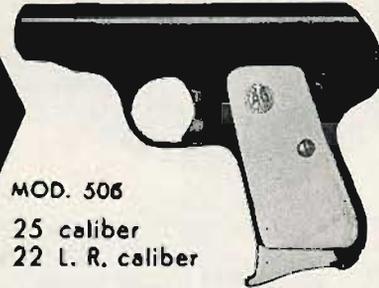
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DON'T BE A GUN BUTCHER

(Continued from page 25)

prized grouse gun, a Merkel 16 over-under, hasn't been taken down in three or four years. It's just not necessary. The wood-to-metal fit is very close, and I see to it that the gun stays well protected, so that only field stripping is required to keep it in top shape. Still, once-a-year maintenance for the average sportsman is a good rule of thumb.

Still among the most popular big game rifles in America are the lever actions, and most of them are relatively easy to keep in working order and do not require extensive disassembly. The Marlin 336 is probably the simplest to "field strip" for cleaning. Removal of the lever pivot screw permits removal of lever, bolt, and extractor. This rifle is then cleaned from the breech end, the way all guns should be cleaned. Winchester's Model 1894 is not an easy rifle to dismount, and the hunter is best advised to clean it from the muzzle end, being very careful not to let his cleaning rod mar the rifling at the muzzle. The same goes for the Savage 99 and the Winchester 88. If any of these rifles must be taken down, be very careful to follow the manufacturer's directions, and use screwdrivers that are fitted to the slots.

Just a word about some of the manufacturer's directions for disassembly and reassembly. These frequently read quite clearly as far as disassembly is concerned. It's long and tedious reading to be sure, but most directions are complete and can be followed. Then, reassembly is quickly disposed of in four words: "Reassemble in reverse order"! It's usually not that simple, and often it is better not to disassemble at all.

Bolt action rifles are the easiest to maintain and are relatively foolproof if you don't get carried away and try to rip apart one of the new trigger assemblies! The simplicity of the bolt action and its ability to be field-stripped with ease is one of the big reasons this type of rifle has been so popular for so long with the military. Millions of citizen soldiers in many nations across the world have been able to cope with it quite readily. Anybody can handle this rifle without difficulty; it's perhaps the most rugged type of rifle ever developed. Ordinarily, all one has to do is remove the bolt and clean the bore. If necessary, the magazine can be opened to get rid of dirt or whatever else may have accumulated. If the stock must be removed, that too can be accomplished easily, and it should be done at least once a year if the gun is used in the field.

The modern autoloading rifle is a horse of another caliber. All the new autoloaders are gas-operated guns, meaning that gas is utilized via a small cylinder under the barrel, like a steam engine, to operate the action. The gas-operated guns dump powder residue inside the forearm where the cylinder is hidden. These should be cleaned out frequently if much shooting is done. Remington's 742, with a two-piece stock, is not hard to handle, but Winchester's 100 with one-piece stock is a very tricky gun to get apart and back together again without chipping the stock. Remington's high velocity pump action rifle, Model 760, is a trouble-free gun that requires very little in the way of maintenance.

As long as clean ammunition is used in any .22 rim-fire rifle, and the gun is not allowed to get wet, it is not necessary to clean the bores of these rifles. However, if the gun is to be put away for any period of time, it certainly makes a lot of sense to clean and oil it thoroughly.

Similarly, there are people who prefer not to clean a scatter gun throughout the shooting season. I've never believed in this theory and think it best to scrub the tubes out at least once in a while.

Cleaning shotgun bores is an easy job since barrels can be dismounted readily from the frame or action. One chronic complaint about shotgun barrels is that lead accumulates and builds up from the shot scraping along the sides of the bore. Usually, if the condition is not too bad, Hoppe's No. 9 will loosen the lead enough to dislodge it. But many cases of leading require the services of a bristle brush. A very old method of "curing" lead problems is to scrub the bore with fine copper or brass mesh that is sold in hardware stores and is used for strainers. Apparently this action fills in the pores of the steel and makes a more uniform surface.

Most auto-loading shotguns are subject to the same accumulation of dirt as auto rifles are, and this residue must be cleaned out frequently. Aside from the points mentioned, most shotguns only require a gentle oiling periodically to prevent rust.

Revolvers (except the tip-up variety) must be cleaned from the muzzle, using extreme care not to damage the rifling by scraping it with your cleaning rod. Cylinder charge holes may be cleaned without removing the cylinder, except on single action guns. One should avoid disassembly of a good revolver whenever possible. But if you must remove the side plate, there is a way of doing the job: Remove all screws, then tap the frame lightly with a wooden or plastic object like a screwdriver handle. This will make the side plate pop up. Don't ever pry it up!

Generally speaking, automatic pistols are made for easy and simple disassembly. Barrels should be cleaned from the breech end, and powder residue should be wiped off the gun with an oiled cloth. Reassemble and the job is finished.

There is nothing like the looks of a well-kept gun. A little bit of sloppiness and your pet gun can become an eyesore. Just think a minute before you try to take it apart, and be sure you have the right tools handy. Then use them right. If you can't do that, let someone else take them apart for you. It's too easy to ruin a good gun!



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(Continued from page 29)

I will vouch for each of those three adjectives. Every shot means many miles of the hardest kind of foot travel and, as for the danger, elephants that have been hunted as these have hate humans, are clever as hell at setting traps for a hunter, and they are shot usually at ranges of about 60 feet in dense, dark jungle. Buhmiller has brushed death many times, have no doubt about it. He is now 70, but he will return to Africa this year for more hunting—not because he loves killing but because he is convinced, as are the game department experts, that the herds must be controlled if the species are to be preserved in the face of expanding land use and population.

On his first safari, John took along a .375 Magnum and the mighty .505 Gibbs. On the second, he took a .458 Winchester, a .450 Buhmiller wildcat, and another magnum wildcat made by himself for a cartridge using the .378 Weatherby Magnum necked up to .458 caliber.

On the third trip, he used the .450 Magnum and .458 Winchester; and on the fourth trip he took a .470 Magnum and a .500 Magnum. He has made a lot of one-shot kills, but he says he has probably averaged two shots per elephant. This is considered a good-or-better average by the professional game control hunters.

Buhmiller says, "The bullet is a big factor in this shooting. These .470 and .510 bullets have a tendency to tumble after heavy bones are struck, and this makes them even more deadly than the slug that drills straight through, especially on shoulder shots. Incidentally, the shoulder is the best point of aim for most hunters. If he has a choice, the average safari hunter should not select the brain shot; the brain is small and it takes a lot of experience to know how to reach it from various angles. The shoulder shot with a big, hard-hitting slug will usually at least bring the animal down, whereas a head shot that misses the brain often seems

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to do little damage. The beast will simply take off, and you'll be lucky if you ever see him again. Game Control hunting is a different story; we use the brain shot whenever possible because, when the brain is truly hit, the animal goes down quietly without spooking the rest of the herd, and you can often get second, third, even fourth or fifth shots. Of course, every elephant is a different story; sometimes an animal will take off like a freight train after a seemingly well placed hit, either head or shoulder. Karamojo Bell favored the head shot—I met and talked with Bell's favorite gun-bearer; but Bell killed 1100 elephants, was a magnificent shot, and knew exactly where to find the brain from every angle."

Buhmiller's .460 is quite similar to that made by Weatherby. Both are made on the .378 WM case. Buhmiller's version uses a 500-grain solid bullet and 100 grains DuPont 4320 powder. When he commenced to kill tuskers with this load he found he shot completely through old Tembo's head more often than not. This complete penetration occurred so frequently that he began casting about for a cartridge which would give somewhat less penetration and deliver more shock effect.

He then developed a .475 Magnum wildcat which is very probably his favorite. He makes up the .475 on Norma unformed cylindrical brass. All it requires is a slight sizing to accept the .475 bullet. His load is 90 grains 3031 powder and the 500-grain Kynoch bullet as made by the British for their .470 Nitro Express. This bullet actually measures out to .474 inch. Over a great many kills, he finds it decidedly superior to the .450s.

He has used this same bullet quite successfully when loaded in the .460 WM case, expanded, of course, to accept the slightly larger slug. He says, "I prefer the smaller Norma case — same head size as the .300 H&H Magnum — (because it) gives me 6 rounds in the Brevex action. The .460 WM case is much larger and when I use it I am limited to only three rounds in the gun. This, at times, is a dangerous liability. Many times I have found it necessary to shoot one gun dry and then waste precious time accepting a second from my gun bearer. Actually, what the Game Control elephant hunter needs is a rifle with a 10-shot magazine. Like Bell. He used his old .303 SMLE with its 10-shot magazine. The 7 shots I get with the .450 Watts and the .475 on straight Norma brass is at times a real advantage."

Last year, Buhmiller made up a .500 caliber by expanding the mouth of the Norma unformed brass to a dimension which would accept the 570-grain .510 Kynoch bullet. He turned down about one-fourth inch of the heel of the bullet to .487 diameter, thus leaving a sharp shoulder, something like the .22 Long Rifle. The recoil of these great cartridges is so terrific it sets the bullets back in the case. This is caused by the round slamming into the forward bulkhead of the magazine well. Buhmiller's clever shoulder on the bullet cured that problem. The .500 Magnum tamped with 90 grains of 3031 powder produces the same punch, generally speaking, as the .505 Gibbs. He found this load was poisonous on the tuskers and would drop the biggest of them in their tracks.

Since he had by this time proven quite conclusively that the 90-grain powder load would kill elephants, why use more, he asked himself? One case which he shortened to 2.50 inches holds the 90 grains weight of 3031. It fills the case, leaves no air space, and functions through the action with efficiency. Buhmiller likes the 2.50-inch case length best in the .500 caliber.

Another wildcat which Buhmiller made up and likes is the .404 caliber. (The actual bullet diameter is .432".) He loaded this one in the .460 WM case, using bullets of 400 grains by Kynoch and also 400-grain and 500-grain bullets from Barnes. With this .404 wildcat he could shoot either his own pet load or, in a pinch, fire the standard .404 British cartridge.

Buhmiller has had a great deal of experience with a variety of bolt actions. These include our well-known Winchester Model 70, the Mauser bolt action in both standard and magnum variations, and the big Brevex bolt. This latter is essentially a Mauser magnum but is made by the French. He said, "All my rifles on one trip were made up on the Brevex Magnum action. These actions have a very grave fault; they are made with so little clearance in the receiver ring that the bolt will not close on a cartridge which is simply dropped into the chamber. That round has got to be fed up out of the magazine for the bolt to close on it. I was aware of this before I took this battery on safari. As a matter of fact, I had written the Brevex people about it and asked them to do something about this obvious shortcoming. They refused to make any modifications.

"I admonished myself to be very careful and never, never drop a cartridge into the chamber. Despite my admonitions to be careful, I managed to get into trouble twice. In

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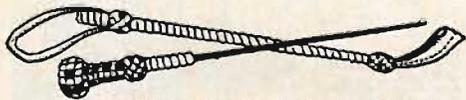
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a hot corner I ran the rifle empty and dropped a single round into the barrel. Of course, the bolt would not close. The hell of it was that a wounded cow elephant was trying to catch me around a small clump of brush right at the moment. I managed to get away, but I was pretty lucky. I swore off the Brexex right after that!"

Sights are extremely interesting from Buhmiller's standpoint, and I talked to him at length on the kinds and types of sighting equipment he used. He said, "I fitted my .458 and .450 Magnums with the open V-type iron sights. When I sighted in these weapons, I was surprised that I seemed to make better targets with them than with the peep. For quick, close-range shooting, there is no doubt in my mind that an open rear sight is quicker than any aperture. I wonder, at times, if maybe we aren't loaded up with so much propaganda on the peep sight that we have actually grown prejudiced against the open job and are blinded to its virtues."

I asked Buhmiller how frequently he was charged. The Tanganyika herds are notorious for short tempers. They have been harassed for many years, and it has made them quick to fight. John replied: "Quite a few experienced hunters have been killed by elephants. I had shot 84 of the great beasts before I got an all-out charge on my hands. In this elephant control work, I strongly favor the magazine rifle, the double express rifle simply will not do. Many times the huntsman comes face to face with an elephant in heavy cover. The beast may have heard some suspicious sounds or gotten a whiff of your scent. Anyway, the bull or cow will be facing directly toward you when you come into

mutual view. I make it a practice to fire instantly. That animal may be part of a herd. I want five or six shots without the necessity of reloading. The charge I spoke about from my 84th elephant came just after I had dropped two bulls. With a double rifle in a spot like that, I'd never have had the time to reload. With the magazine bolt gun, I was ready."

One of the best of the magnums for taking elephant is the .450 Watts, Buhmiller believes. The .450 Watts uses a cartridge with a straight taper and it is possible to interchange the .458 Winchester factory loads with it. Another cartridge he likes very much is the .450 Ackley Magnum. This cartridge will hold a little more powder than the Watts. He has made up his own .450 Magnum, and says, quite frankly, the differences between his version and that of Parker Ackley are small.

Speaking of close calls, Buhmiller says, "As for close calls, the kind we read about, I have had few if any. But you want to remember when you are hunting alone with a native that you are strictly on your own. There is no White Hunter at your elbow with his big double express to back you up. If some beast does attack you, you must keep cool and shoot straight."

"For instance, the rhino is a bad actor, but he can usually be avoided. Allan Tarleton stated once that in his 38 years of hunting he had never found it necessary to kill but one rhino. An elephant may pretend he is going to charge, but most of the time he is bluffing. I was charged once by an unwounded buffalo, and I had to kill it. A wounded buff is quite another matter. Shoot one and

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have him get away, and more times than not, when you follow him up you will be in for quite a rhubarb! M'bogo means business, and somebody is going to get hurt if you don't stop him."

The editor of the leading hunting and shooting journal in East Africa, "Field & Tide," interviewed Buhmiller after his last safari and, in commenting on the Buhmiller score of 81 elephants and 5 buffalo in a little over two months, the editor said:

"To those of our readers who will want to know where, why, and how such a large bag is allowed one hunter, and who may be anxious to set out on a similar expedition the answer is:

1. Try to arrange it so you land in Tanganyika at the right spot just at the moment when the game department decides that several hundred elephants have to be destroyed in order to protect life and property:

2. Make sure that you are able to convince the game warden that you are the right man for the job!

"Mr. Buhmiller's safari took place in the Manyara district of Tanganyika where large herds of elephant and buffalo are sheltered by dense and almost impenetrable forests and have for a considerable time been making farming a precarious undertaking."

The same advice goes for any GUNS readers who may wish to follow in Buhmiller's footsteps! I can't help you; neither can the magazine; neither can Buhmiller.

This year, 1962, Buhmiller plans to go

over about mid-year for another three-month safari. He has a new .460 Magnum made up, and intends to shoot .458 solids in it—except he will reverse the bullets, firing 'em base-end first! These, John explains, will "Cut a heluva wad out of the hide, which will insure a lot of bleeding and, besides that, will make a big wound-channel all the way. Too, there is a lot more shock effect from these wadcutter than from the conventional round-nose."

Instead of returning to his favorite stomping grounds in Tanganyika, he plans on hunting north of Nairobi, in the Aberdares, made famous eight years ago as the last stronghold of the Mau Mau. Finished with his shooting in these mountains, he intends to move over and wind up his safari on the slopes of Mount Kenya.

"I am awfully keen," he says, with all the enthusiasm of a boy, "to see what these wadcutter slugs of mine will do. I throated the chamber on this .460 to take the square-ended bullet. In order to insure reliable functioning from magazine to chamber, I elected to make up the cartridge on the big .460 WM case. This case, remember, is a lot bigger in girth than the Norma brass which I usually use. I secure a bigger chamber entrance for this big square-ended bullet to enter. It has worked very well here in the shop, and I expect it to do the same up there in the bamboo on Mount Kenya."

We expect so too—with John Buhmiller pointing the rifle.

ACTION—NOT WORDS

(Continued from page 31)

on their toes to excel in marksmanship.

Of course, from first-hand observation, it doesn't take a psychologist to see how all these things impress the youngsters. The impression is not only left with them, but it is also taken away and spread to other young people of the area. They come to know and respect law and the law enforcement agencies and officers.

The Junior Rifle Club was organized in June, 1955, receiving their charter from the National Rifle Association in October of the same year.

"I first realized the dire need for some type of firearms training outlet for our youth when the Caddo Parish Sheriff's Department started receiving an increasing number of complaints from local farmers, as well as persons living within the city of Shreveport, concerning boys shooting .22 rifles around their homes and livestock," Sheriff Flournoy recalls.

Sheriff Flournoy understood the complaints and knew that the youngsters wanted and needed a place to shoot their rifles.

"Give them a decent place to shoot and these complaints will stop," was his answer to the problem.

Sheriff Flournoy took the problem to the Board of Directors of the Caddo Rifle and Pistol Club, of which he is president, and the groundwork was laid for the present Junior Rifle Club. A full-time instructor was hired by the Sheriff. Shortly after the club was organized and operating, complaints concerning haphazard firearms shooting by young boys began to decrease. The club started with 8 members and grew to 125 members by 1957.

Junior Rifle Club members aren't allowed

to "blast-away." A carefully planned program is supervised by an advisory committee. Heading the committee is H. M. Terry (who is also chief instructor), Sheriff Flournoy, Assistant Police Chief Charles Giglio, W. H. Womack (former president of the Senior Club), Harry Friedman (local banker), and Jim Clark, gunsmith and former world's champion shooter.

Mr. Terry, an accredited N.R.A. instructor, is also in charge of the field program for the youths, being assisted by W. P. Pierce and Tommy Ward, members of both the N.R.A. and the Caddo Rifle and Pistol Club. At least one of these three instructors is present at all meetings of the junior riflemen, directly supervising all firing.

Members who are able to provide their own rifles are urged to do so, but the Sheriff's Department and the senior club has a small stock of guns available for use by those youngsters who are unable to furnish their own.

"Shooting appeals to many boys and girls who cannot take part in more strenuous recreation. And it is not largely a spectator sport. Everyone is a player in this game. Even the handicapped youngsters and the ones with slight heart conditions can participate in shooting," says the friendly Sheriff.

Excellent facilities are situated on the 40 acre tract of range which makes up the Caddo Rifle and Pistol Club and the Junior Rifle Club. The land has all been cleared and fenced and ditched. Trees have been left in the park area. Also, ample parking space is available.

The small-bore range used by the Junior Rifle Club has a 20 foot embankment as backstop, and the concrete firing line pro-

vides 50 covered firing points with target butts at 50 and 100 yards. Twenty of these points are also set up for fifty foot shooting. There is one coach for every five competitors and over-all supervision falls to the range master.

A junior marksmanship program under the supervision of Captain Harold M. Terry, Caddo Parish Sheriff's Office, is in its third year. This particular project provides training in the safety and in marksmanship.



A pistol and big-bore range are also available on the well-kept club grounds. On the pistol range there are 80 covered shooting positions and targets operate on compressed air for timed and rapid fire. There is also space for 50 yard slow-fire targets. All shooting positions are floored with concrete. Thus, the club is equipped to handle 240 shooters.

A modern brick and tile clubhouse has every convenience for the young members, including deep well water, cold drink stand, target room and rest rooms.

For the junior riflemen, safety is taught first, then sighting and proper trigger squeeze, and then the correct shooting positions. Three shoots for the Junior Rifle Club members are held annually. They are the Sheriff Flournoy Award Tournament; Kiwanis Annual Junior Rifle Tournament and the tournament held at the end of the season for the entire group.

Sheriff Flournoy, summing up his feelings on youth and juvenile delinquency and how

organizations like the Junior Rifle Club can play an important part in reducing crime before it can start, says:

"I am sure that each thinking law enforcement officer has often wished that there was some way for him to charge parents with the crimes of juveniles. There is no doubt that such would have an immediate effect in reducing our juvenile delinquency. But forcing parents to accept the responsibility for their children's acts is no answer, in my opinion. The solution is in something broader and deeper than the passing and enforcing of more laws.

"The duties of a good law officer, I think, go far beyond his technical duties of apprehending and bringing violators before a court. The time and place to begin building respect for law and order is with our juveniles. It is not enough that we should leave this entirely to the parents. Although the parents are key people in the process, much of the responsibility lies with us who practice the profession of law enforcement. We are the ones who must prove to our youth that we are worthy of their respect.

"Here in Shreveport, I spend more of my time with boys and girls who have not committed crimes than I do with those who have. Of course, not every law enforcement officer can do this. But I believe that a great deal of the effort of any enforcement agency should be devoted to winning our youth before they can become involved in crime—any kind of crime.

"Such programs as our Junior Rifle Club can do much to interest youths in the 'good things of life.' It is working here and can work elsewhere."

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(Continued from page 33)

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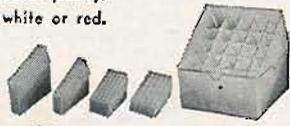
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is the Mark VI military ammunition. Since this has corrosive primers, be sure to clean your revolver well after firing it.

Brass from this ammunition can be re-loaded. Decapping can be done with the flattened and sharpened end of an ice pick by simply piercing the primer and prying it out, or you can buy a Berdan decapping tool. When resizing Berdan primed cases, be sure to remove the decapping pin from your die. This pin only works with Boxer primers, and it may ruin some cases if left in place.

If you don't have dies, you can get a set for the .455 caliber from R.C.B.S. A three-die pistol set sells for \$13.50, or you can use your .45 ACP dies. It would be best to have another sizer die, either in .455 or .45 Long Colt, since it saves wear and tear on cases. The .45 Long Colt and .455 are the same .480" diameter, according to Lyman's reloading manual. It is better to use bullets larger than the .452" used in the .45 ACP. Bullets running .454" to .457" are better suited to the larger bores of the .455's.

If you have dies for .45 Long Colt, you can use them, but you will not be able to seat bullets with the seater die as it is. You can either shorten it or purchase an additional seating die; the .45 ACP or .455 Webley seater will work.

You can also make .455 Webley cases from .45 Long Colt. First trim to a length of .750". The rim of the .455 is .036", while the rim of the .45 Long Colt is .058". This means that you will have to turn the rim of the .45 Long Colt cases down, or, as an alternative, you could alter the gun to take the cases with the thicker rim.

Factory ammunition is currently produced by Eley Kynoch of Birmingham, England, in a smokeless powder load with a 265 gr. lead bullet. Ballistics are identical with the Mark VI service load. The .455 is also produced by Dominion Cartridge Company of Canada, and since Dominion uses our Boxer type primers, reloading is made somewhat easier.

.455 Revolver

Length overall1.260 inch
Length of case760 inch
Diameter of rim535 inch
Diameter of case479 inch
Diameter of bullet456 inch
Thickness of rim036 inch

Next there is the .450 Revolver cartridge, also known as .450 Boxer, .450 Adams, and .450 Eley. This cartridge was used in the Adams army revolver, England's service revolver from 1868 to 1883.

The Adams revolver featured a spring-

loaded sear, or auxiliary trigger, which engaged notches in the hammer to allow single action firing. Double action firing was achieved by a lifter pivoted to the trigger. The cylinder stop was part of the trigger, and engaged the stop grooves in the cylinder when the trigger was moved fully rearward. This system of locking was used in innumerable inexpensive revolvers and is still found in Iver Johnson revolvers and, with positive cylinder stop added, in Harrington & Richardson revolvers.

The .450 is now produced by Eley Kynoch in a smokeless powder version with 225 grain lead bullet. The .450 can also be used in .455 revolvers, since the .455 is simply the .450 with a longer case, heavier powder charge, and heavier bullet.

You can make .450 cases from .455's by trimming to .680". It may be necessary to turn the rim to smaller diameter since the .455 rim is larger and the .450 Adams has an imbedded-head cylinder, unlike the later .455 Webleys.

Because the .450 case is so short it would not pay to cut down .45 Long Colt cases. The solid head construction would not leave enough powder space.

Powder charges should be kept light. Original loading was 13 grains of black powder behind a 225 grain lead bullet. Velocity was 650 fps, with an energy of 211 foot pounds. Personally, I prefer a lighter bullet. The .450 produces little enough velocity without the handicap of an overly heavy bullet. If I used smokeless powder in a .450, I would not go over two grains of Bullseye. You should be able to load the .450 with either .45 ACP or .455 Webley loading dies.

.450 Revolver

Length overall1.150
Length of case680
Diameter of rim510
Diameter of case479
Diameter of bullet456
Thickness of rim036

Next we have the .476 Revolver cartridge. This cartridge is no longer made, but this presents no problem. The cartridge case is the same diameter as the .455, though it is slightly longer. Bullet is larger than that used in .455, being .476 inch diameter.

You can use either the .450 or .455 cartridges in a .476 revolver, though you can't expect much accuracy-wise using .456 inch bullet in a bore intended for a .476 inch slug.

You can hand load for the .476 revolver, using .455 cases loaded with .476 inch diameter bullets. If you cannot get a bullet mold

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in this size, you could use a Lyman mold that casts a .475 round ball. If you cannot get an expanding plug in the .475-.476 inch diameter, you can simply adjust your seating die to crimp the bullet (or ball) into the cartridge case. For light loads it is not particularly necessary to resize cases.

Try This For Size

Part of the state of Alaska's exhibit at the Seattle World's Fair is a polar bear which stands 11 feet 1 1/2 inches tall, as mounted. The hide, unstretched, measured 11 feet 9 inches from paw to paw, 11 feet 4 inches



from nose to tail. It is said to be the biggest bear ever taken, regardless of species.

It is at least the world's record polar bear, so accredited by Boone & Crockett. Dr. Murray L. Johnson, Curator of Mammals at the University of Puget Sound, believes it is the largest bear ever taken; and Robert Henning, Editor and Publisher "The Alaska Sportsman," says that weight studies prove this specimen to be larger than any Kodiak ever recorded.

The white giant was killed by Arthur R. Dubs of Medford, Oregon, on March 3rd, 1961.

You can make .476 cartridge cases from .45 Long Colt brass; proceed the same way as when making .455's. Trim cases to a length of .870 inch. It will be necessary to thin the rims of the cases, unless you increase the headspace of the gun to accept the thicker rims.

This cartridge was used in the experi-

mental Enfield army revolver which was tried out as a replacement for the Adams .450. It was finally rejected in favor of the Mark II Webley .455 in 1892. The cartridge is known as .476 Revolver, .476 Eley, and .476 Enfield. Other guns include the Lancaster pistols, double action hammerless big brothers to the Remington over-under, and Sharps and Starr four barrel derringers; the Kynoch "Manstopper," a double trigger hammerless topbreak; and the Colt Single Action, also made in .450 Boxer and .455.

Many people have the mistaken notion that the .476 was a real monster of a cannon. Actually its ballistics were identical to the .455 Webley black powder load. A charge of 18 grains of black powder drove the 265 grain lead slug at 700 fps with 289 foot pounds of energy at the muzzle. Cartridge case, while longer than the .455, is shorter than the .45 Colt or even the old .45 Schofield.

.476 Revolver

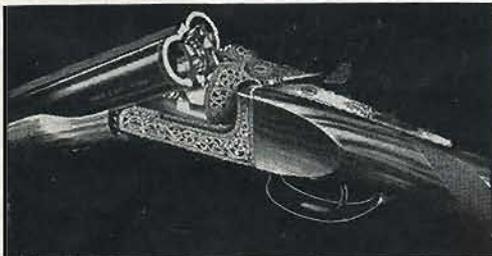
Length overall	1.475 inch
Length of case870 inch
Diameter of rim534 inch
Diameter of case479 inch
Diameter of bullet476 inch
Thickness of rim035 inch

Largest of the British revolver cartridges was the .577 Boxer. This was used in the Lancaster four barrel and over-under double-barrel pistols. The guns were made in calibers .455, .476, and .577. They were used by some hunters in India to "back up" their big double rifles. Since they often hunted tigers from the back of an elephant, they called these guns "howdah pistols." There were also revolvers in .577 caliber, including guns by Webley and a top-break by Francotte.

Second largest of the English revolver cartridges was the .500 bore. The big bores were well-liked by British army officers on Indian duty. Their huge slug and tremendous stopping power could be relied upon to stopping a charging fanatic—sometimes a handy thing in those days.

There were many other cartridges, including .442 long and short, .440 long and short, .425 long and short, .380 long and short, .360 short, .340 revolver, and .320 long and short. Most are out and out oddballs, long since discontinued, impossible to obtain. If your gun is a .577, .500, .442, .440, .425, .360, or .340 caliber, you are out of luck.

If you have a .380 or .320 caliber revolver, however, you can get ammunition for it. Both rounds, in smokeless loadings, are made in England by the firm of Eley Kynoch. The .380 Revolver cartridge fires a 124 grain lead bullet at 625 fps, with a muzzle energy of 110 foot pounds. The Eley Kynoch .320 Revolver cartridge fires an 80



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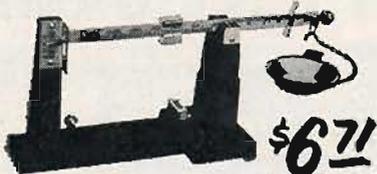
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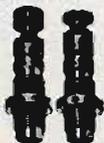


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grain lead bullet at a velocity of 550 fps,
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You can also use cartridges loaded in the
 United States. If your gun is a .380, try .38
 Long Colt. If .38 Long Colt is too long for
 the cylinder, try .38 Short Colt. If you have
 a .320 caliber, try .32 Short Colt or .32 Long
 Colt. One gun made in .320 was the Webley
 Pocket, a hammerless topbreak pocket re-
 volver.

Also, you can make .380 cases from .38
 Specials. Simply trim to .710 inch for .380
 Short, .945 inch for .380 Long. Use a bullet
 with deep hollow base, which will expand
 to fill the grooves on firing. Best bullet for
 the .320 caliber is Lyman #299155.

There is another revolver cartridge known
 as the .380. This is the cartridge used in
 the British Enfield service revolver, caliber
 .380, Number 2 Mark I and Mark I*. The
 cartridge is known as .380 Mark I. Other
 names for the round include .38 Webley
 Special and .38-200. This .38-200 is nothing
 more than the .38 Smith & Wesson loaded
 with a 200 grain lead bullet, or a 180 grain
 nickel-jacketed bullet to comply with the
 rules of war. The British felt that this .38
 had practically the same stopping power as

the .455, and in a lighter gun.

This cartridge fires its 200 grain bullet at
 a velocity of 600 fps, with an energy of 160
 foot pounds at the muzzle. It is used in the
 Enfield Number 2 Mark I and Mark I*,
 Webley Mark IV, and the American-made
 Harrington & Richardson "Bobby" and "De-
 fender," Colt "Commando," and Smith &
 Wesson "Victory." The K-38 Masterpiece,
 incidentally, is made in .38-200 caliber for
 sale in England.

If you have a fine English handgun and
 can't shoot it because there is no ammunition
 available, get out the loading tools, get the
 calipers ready, and make your own. If you
 feel that this handloading is too much work,
 try to locate a custom loader who will do the
 job for you. At any rate, dust off that gun
 and get ready to shoot. Give it a try
 —you owe it to yourself.

*I am indebted to the firm of Eley-Kynoch,
 a division of Imperial Chemical Industries,
 Ltd., of Birmingham, England, for the car-
 tridge dimensions listed for the various Eng-
 lish handguns rounds, as well as much other
 information concerning charges and ballis-
 tics.—John W. Rockefeller*

THE .22 SABRE

(Continued from page 37)

the breech. In an undertaking of this na-
 ture, it must be remembered that total
 thrust on the breech mechanism is deter-
 mined by the internal pressure in psi times
 the area of the rear section of the case. And
 the .44 Special is a large, fat case!

In sectioning a .357 S&W Magnum case,
 I found a very heavy base and webb. Though
 designed for 35,000 psi, this case could easily
 handle 50,000 psi. This was the answer. I
 made up several sketches and samples to
 check on capacity and forming ability. A
 length of 1.30" was considered minimum, yet
 offered a 13 per cent greater capacity than
 the R-2 Lovell case. In the final design there
 is no excessive shoulder angle, nor is the
 neck too short. Short necked cases often
 lead to erratic pressure and shortened throat
 life, and the Sabre case has a working ca-
 pacity of .084 cubic inches—50 per cent more
 than the K-Hornet.

I then made up a set of case forming dies.
 The first die reduces the outside of the neck
 to .310", the second to .280", and the last
 one to .250". This last die makes it possible
 to load without further neck sizing or ex-
 panding. Cases are trimmed to 1.290" and
 the inside neck is slightly chamfered. Nickel

plated cases were found unsatisfactory, and
 only brass cases should be used. Super-X
 brass proved best, and did not require neck
 annealing. If other brands of brass are
 used, I found it best to anneal 3/8" of the
 neck. This should be done between the sec-
 ond and third forming stages. It is possible
 to form Sabre cases with a two die set, but
 trying to form the cases with only one die
 lead to brass troubles. A box of 50 new cases
 can be formed, annealed and made ready for
 loading, in less than an hour. Since a mini-
 mum of 20 loadings can be obtained from
 each case, the brass problem is nil. Brass
 stretching was checked in one case that was
 fired 20 times with max loads: total lengthen-
 ing was .006", and two of my best groups
 under 3/8" were made in the course of this
 test.

A chamber reamer for a Remington Hep-
 burn was made. This gun was originally
 chambered for the K-Hornet, and the octag-
 onal barrel had been re-lined. Various loads
 of 4198, 2400, and Ball C were tried behind
 swaged spitzer bullets weighing 45 and 50
 grains. A maximum load, using the 45 grain
 pill and 2400, consistently gave less than
 minute of angle groups. When max charges

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of Ball C were used, pressure became erratic and accuracy fell off. With 4198 and a 50 grain bullet, groups of 1" were the rule, but because of barrel condition, no further accuracy tests were made.

In the field, the Hepburn accounted for two chucks, one at 200 yards, the other at slightly over 250 yards. The 50 grain Sierra bullet blew up on the chuck at the latter shot, indicating good remaining velocity at this range. Another .22 Sabre accounted for a number of chucks at ranges from 150 to 250 yards. The new gun performed as well as the original Hepburn did, and I find that it is far superior to the K-Hornets that I have used for years. The report is a little louder than that of the Bee, but considerably less than that of the Swift.

In order to confirm my ballistics data, another rifle was built on a Winchester Hi-Wall that had an M-2 Springfield .22 caliber barrel in the original .22 Lovell; groove diameter was .224" and only setting back and rechambering were required. The new gun and some formed cases were sent to Ed Yard, a fellow member of Experimental Ballistics Associates. Using a crystal controlled counter chronograph similar to the Potter machine, Ed worked up loads and confirmed my data. All listed loads are safe and do not produce excessive pressures. Although the Sabre should be loaded close to maximum for best performance, this maximum should be approached slowly and with caution. There is little question that some guns will take higher pressures, but it is always better to be safe than sorry. Excessive pressures were determined by watching for the slightest sign of case expansion, and

even before sticking cases were encountered, charges were cut back. Loads that gave the usual signs of pressure were abandoned.

The .22 Sabre can attain 3060 fps with the 50 grain bullet, and cases will slip out easily. Extra velocity can only be obtained when case life is sacrificed and loss of accuracy is of little consideration. In my Hi-Wall Sabre, I repeatedly fired $\frac{5}{8}$ " groups, using Ball C powder and a 50 grain bullet. All of the loads listed in the table are safe loads, have been tested for accuracy, velocity, and pressure. Even after 20 reloadings, primers seated tightly, and only neck sizing is required.

In working up loads for any wildcat from someone else's design, it should be kept in mind that tight barrels, hard jackets, large

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.243

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.222

.22 Hornet

.38 Special
Wad Cutter

.32 S & W Long
Wad Cutter

9 M/M

.25 ACP



Firearms International
WASHINGTON 22, D. C.

flash holes, heavier cases, and steeper twists are factors that influence pressures.

The .22 Sabre is well suited for the Winchester Hi-Wall, the Stevens #44½, the Sharps Borchardt, the Remington Hepburn, and several foreign single shot actions of similar strength. The Sabre is, however, not limited to single shot actions. The Krag can easily be converted. Here you grind the bottom of the extractor to where it bears against the bolt body. This permits the claw to drop down far enough to grip the Sabre case. Since single loading would be used on

such a conversion, it is advisable to grind the magazine flush so that a full sided stock can be used. The .22 Sabre should not be made up on a Lo-Wall or the Stevens #44 action.

Most existing K-Hornets, Bees, or R-2 Lovells can be converted to the Sabre easily and with little cost—only setting back of the barrel by a few threads and rechambering are required. As in all conversions, action strength should be considered. The Winchester Model 65 in .218 Bee is such an action. If loaded with a great deal of care and by

developing loads cautiously, it is possible to use this action without untoward effects. Loading dies for the Sabre are easily made: simply shorten the lower part of the die body of .222 Remington dies by ⅜".

The .22 Sabre gives you a highly accurate 225 yard varmint rifle at relatively low cost. Brass will be available for a long time to come, and it is a wildcat that won't break your finances, that you won't have to pamper, and that farmers won't object to when you are out popping off a few chucks. What more can you ask?

.22 SABRE LOADS

BULLET	CHARGE	POWDER	VELOCITY	BULLET	CHARGE	POWDER	VELOCITY
50 gr. Hornady Spire Pt.	16.6 "	#4227	3040	40 gr. Sierra soft point	14.0 "	H-240	3220
" " " " " "	17.5 "	#4198	2975	" " " " " "	14.5 "	H-240	3390
" " " " " "	14.0 "	H-240	2975	" " " " " "	17.0 "	#4227	3325
" " " " " "	14.3 "	H-240	3065	" " " " " "	17.5 "	#4198	3145
45 gr. Remington Hol. Pt.	19.1 "	Ball C	2750	" " " " " "	5.0 "	Unique	2000
" " " " " "	19.5 "	Ball C	2835	35 gr. Sisk soft point	17.0 gr.	#4198	3020
" " " " " "	17.3 "	#4198	3020	" " " " " "	13.0 "	H-240	3065
" " " " " "	17.5 "	#4198	3050	" " " " " "	14.0 "	H-240	3240
" " " " " "	16.5 "	#4227	3160	" " " " " "	14.5 "	H-240	3400
" " " " " "	14.5 "	H-240	3190	" " " " " "	17.0 "	#4227	3380
41 gr. Sisk super Lovell	17.0 gr.	#4227	3295				
" " " " " "	14.0 "	H-240	3165				
" " " " " "	15.0 "	#2400	3100				



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Pacific Micro Scale	15.40	12.35
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THE 28 GAUGE TO THE RESCUE

(Continued from page 41)

Then I remembered something. Some years earlier, I'd met Charley Skouras, head of Fox West Coast Theatres. Charley, an avid sportsman, had invited me on several junkets to his private duck club in the San Joaquin Valley—and Charley had the most beautiful shotgun arsenal I'd ever seen: four matched, custom-made Parker doubles in 12, 16, 20 and 28 gauge. The 28 was his favorite.

We shot from snnken blinds, over decoys, and it was amazing to watch Charley clobber the big ducks with that featherweight little gun, throwing only ¼ of an ounce of shot. It was certainly no toy, but a precise and deadly weapon, within its limitations of range and pattern. It looked and handled like a shotgun. I'd liked the feel of it.

Could the 28 be the answer to my problem? I began shopping. I wanted a slide action, like my old 16, with full choke. The dealers told me that Winchester offered a Model 12 in 28 gauge, but only on special order, and only in Skeet Grade, with skeet boring. Skeet boring I didn't want, Skeet Grade I couldn't afford, so that was that... The only other choices, the dealers said, would be a Remington 28 automatic, or a Savage single-shot. I didn't want a single-shot; and as for the Remington, a personal prejudice raised its ugly head in that I just don't like auto-loaders. Others swear by them, and that's fine with me; but the only shotguns I've ever really liked were pumps and—come to think of it—doubles.

But no doubles had been mentioned on my list of choices, either side-by-side or over-under. Since then, Browning has brought out

a 28 gauge over-under, and it's a honey; but my crystal ball didn't tell me it was coming.

In desperation, I consulted a Stoeger catalogue. I was sure that 28 gauge guns were made in Europe and, sure enough, I found three listed. The one that seemed to fit my specifications best was a Sarasqueta side-by-side double, 28 inch barrels, bored full and modified. I filled out the order and mailed it. This, too, was a victory of need over personal prejudice: I would have preferred to buy a U. S.-made gun. I have never before bought a gun "sight-unseen," either, and this bothered me.

So, when the gun arrived, I opened the carton with assorted misgivings. Maybe I was a fool to think I could ever shoot a shotgun again anyway—any shotgun. But—hey! This little Spanish piece was downright handsome! Metal-to-metal work, first class; a finely grained light walnut stock, pistol gripped; receiver and under-plate nicely engraved; triggers and name-insert gold plated. It came up nicely, seemed to fit me perfectly. Its weight (5¼ pounds) brought back my qualms about recoil, but I'd give it a trial.

I bought shells for it in the available loadings—6s, 7½s, 9s—and the misgivings about recoil mounted as I noted that they were all high-based shells. Nevertheless, I went to work on patterns.

The patterns were good; very good indeed, with all loads, from 20 to 35 yards. And the patterns were placed neither high nor low nor left nor right, but right where I held her. I was so interested in the patterns that I shot up more than a box and a half of



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shells before I realized that I was beyond my headache limit—with no headache!

Next thing was to try it in the field. What could I do with this baby on flying birds? I didn't have long to wait; the dove and whitewing season was only two weeks off.

On opening day, I sneaked off alone, not wanting anyone around—not even my wife—if I flubbed the deal. Well, frankly, that first day was anything but reassuring, except that I *could* shoot this gun *without* head pains. I missed a lot of shots—shots that would have been a breeze with my 16. I shoot with both eyes open, and I kept seeing those two barrels. This or something threw me off. I tried closing one eye, but this slowed up my reflexes. Instead of shooting fast, as was my way, I was being overly careful, taking too much time, and this was fatal, too. It's hard to teach an old dog new tricks.

The second day, I went back to my old way of shooting. Some improvement was noticeable, but not much. I was still missing birds that I could have downed with a handful of gravel. I sat down and took a good, hard look at the situation, trying to figure out just what I was doing wrong. Those two barrels were causing the foul-up, I concluded. But what could I do so they wouldn't distract me?

On my 16, I'd never been barrel or sight conscious. In fact, there was no bead sight on the 16 at all. Instead, I'd taped the end of barrel into a kind of a blob, and while I was never actually aware of seeing this, that blob did subconsciously stay in my vision, keeping the barrel lined up while I concentrated on the bird itself. I'd learned this little trick a long time ago from an old gaffer down in New Mexico, the finest wingshot I've ever known. It worked.

But how would a gimmick like that do on a side-by-side double? There was only one way to find out. I covered the bead with small layers of white tape, building it up perhaps a quarter of an inch, sloping away toward both sides of the barrels. I anchored this crude looking device by taping it around the tubes. Then I made a lot of dry runs on birds, from all angles. I found, to my satisfaction, that I was no longer conscious of the two barrels. How could I be, with that king-sized blob looming up like a sore thumb? I was back in business again, now able to concentrate on the target—or so I hoped.

It was almost noon. The doves were barreling in now from all directions to the big mesquite grove, to rest in the heat of the day. There was a goodly sprinkling of white-wings. I kept saying to myself over and over, "Just point it and shoot like you did before. Don't wait!"

I loaded up: 9s in the right barrel, for close ones, 7½s in the full choke, for follow-ups or longer shots. I went up with a high incomer, blotted him out and pulled off.

A puff of feathers floated off as the bird hit the ground, stone dead. I whirled on a cross-over, and it was bird number two. When I quit shooting I had a limit of 'mourners' (10), plus 8 whitewings (limit 25), and I was as happy as a teenager with a souped-up hot-rod. I missed, of course; missed a lot. But after I'd gotten the 'word', I had run up a fairly respectable score, considering the number of shells fired.

By the end of dove season, I was shooting that little gun in a way that made no apologies necessary. And with increasing confidence, my scores went up accordingly. I was back in the groove. Quail, later on, presented no problem at all. Nor did a pheasant shoot in Imperial Valley. And, thank the Lord for big favors—no aches, no pains, no nothing but sheer delight in shooting my new favorite. Green lights all the way.

Dividends accrued, too. That light weight, for one thing. The gun swung faster, and I could beat the brush all day long, without getting arm weary from lugging it. The shells were naturally smaller and lighter, too. You could carry more of them, without frequent trips back to the car for refills.

But the best dividend of all was—my wife. She took to that 28 like a duck to water. This, after twenty-odd years of trying without success to get her interested in bird shooting, was terrific. I ordered another 28, a mate to mine, for her sole use, and now she takes an active part in the bird shoots, instead of being a mere bystander or acting only as retriever. This is all to the good.

I hope American gun makers get the scoop on the 28 before the Europeans move too far ahead. One day, that little gauge is going to catch fire, like it did with me, and a lot of shooters are going to want one. It's a perfect gun for the ladies, and ideal for a boy, or beginners.

Duck season was about due, but I was passing it up. Not worth the effort, I kept telling myself, with ducks so scarce that the bag limit had dwindled to four a day (1961). But down deep, the real reason was this: I couldn't sell myself that the 28 was a duck gun—not on the Colorado, anyway. Be like asking a boy to do a man's job—unfair to the boy, even though he was husky and willing. Why tempt the fates—and perhaps be disappointed? You can't ever have it all. But I wasn't too unhappy about giving up the ducks. The way it was, me and that little gun were getting along first rate. We had it made. With some of the best upland bird shooting in the world all around me, I could live without ducks . . . this year, at least.

Next year—who knows? After all, Charley Skouras and I killed ducks with his 28 gauge Parker. Maybe next year I'll get me some duck dinners.

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THE DRAKES CAME DOWN

(Continued from page 27)

today's minimum altitude, let's bust the leader."

We did it. When the next flock came over, we both picked the husky greenheaded leader and smacked him almost simultaneously. The fact that we were shooting from perhaps 30 yards apart administered a crossfire effect that was probably better than if all the pellets had come from nearly the same angle. The big drake staggered, fought for balance, wallowed downward for 20 yards or so, leveled off. But he was now within easy 12 gauge range, and Red hit him again. He came down like a dropped stone.

That greenhead had cost us three shells, but that's only about normal par for pass shooting—and he was cleanly killed, retrieved, ready for the oven. We took three more big ones with our new-found strategy, and next thing we knew, John had joined us.

"What goes on?" John demanded. "From where I was, it looked as if two shots started a duck falling and then a third shot puts it away. What are you guys doing?"

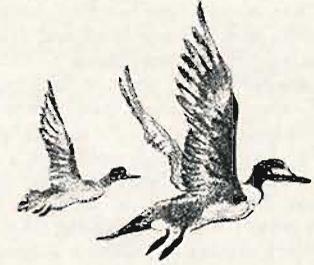
"Here comes a flock," Red told him. "Get down! When they're over, take the drake on your side—and I'll show you."

John watched the flock, concentrating on the drake he'd been told to wallop. When the boy lifted his Ithaca, Red was right behind him with his Browning semi-auto. The shots blended so closely that it would have been easy to believe that only one gun had fired. The big drake tumbled, dead before he knew what hit him. John said, "That brings me within one of my limit," and went out and

retrieved him. He winked at me as he passed me.

Red, brutally robbed of his share of the double play, glared at John, gave me a pained look, and rammed a fresh shell into his Browning. "How do you like that?" he grumbled. "Every time we shoot with that kid, he wipes my eye, one way or another! We should've left him home!"

But that was just talk; Red is genuinely fond of that son of mine, genuinely proud of John's considerable shotgun skill, would never hear to leaving John out of any hunting foray.



When John came back with the mallard, Red yapped at him a little, then came up with another suggestion. "This two-timing business works so well, why wouldn't it work better if used copper-coated 4s instead of 6s? That's a mighty fine goose load; ought to be fine on these mallards. I got a couple of boxes in my car. John, if you'll go get 'em, one box is yours."

"It's a deal, Red," John told him, laughing. "Fact is, I've been using copper-coated 4s all morning. Figured it was the smart thing to do. Dad says they improve patterning percentages by from 8 to 15 per cent, depending on the choke of the gun. . . . And the skill of the shooter, of course," he added, not so innocently, as he headed for the car.

"What'd I tell you?" Red grumbled. "Here I been hunting for 50 years, and taught this kid all I know, and now he beats me to it in figuring out a practical application of the best shot load for a given situation! . . . Anyway, with the greater impact of 4s as compared to the 6s we've been using, I'll bet we can drop them cleanly with two simultaneous shots instead of three or four. We'll never have a better chance to run a field test on the theory."

We gave the theory a field test, all right. Mature mallards that came over at ranges up to an estimated 65 yards were stopped dead in mid-wingbeat when hit with two simultaneous loads of coppered 4s. We were burning ammunition, but we were getting clean kills, with no cripples.

But let me make it very clear here and now that I do not advise you or anyone to practice the method by which Red, John, and I harvested that day's limit of mallards. We did it successfully, by adhering rigidly to a controlled situation—and because we shoot together like a well-coached team. Such synchronized shooting is not easy; the three of us had developed timing by shooting shoulder to shoulder, so to speak, during countless crow shoots. I don't mean that we ever, except by accident, shot simultaneously at the same crow; but when crows are being called in, it is a nicety of the sport for each gunner to hold his shot until the other shooters have targets—for the first shot at



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an incoming flock, that is. After that, crow shooting is on a free-for-all basis, of course. But it isn't polite, among friends, to blast away early and flare the flight away from your buddies. In such practice, Red and John and I had learned act in unison with an almost uncanny precision. We used that knack that day on the Platte.

I use the story here merely to illustrate a point. The efficient field use of shotshell patterns is based on some very basic fundamentals. But they vary from shooter to shooter, from shotgun to shotgun. No combination of the two, man and gun, performs exactly as any other combination. It might seem that such variations are slight, when the contributing factors are compared; but existing variations tend to multiply each other in field results.

Basically, the only connection the hunter has between himself and his game is the density and energy of the shot pellets. But only those which actually strike game count. The energy of the rest of the load is completely wasted. Thus, at any given range, it is immaterial whether the shooter is using a .410 or a 10 gauge Magnum. The only yard stick that counts is this one: if the respective shot charges emerge from the muzzles of both guns at the same velocity and are of the same shot size—if the same number of them from each gun strike the game in identical shock-prone areas—their killing results are identical.

At identical muzzle velocities, each size of shot possesses certain energy factors at progressive ranges. The larger the size of shot, the more energy it will deliver at each of these ranges, though all sizes of shot progressively lose their energy the farther they travel. Consequently, it is foolish to contend that small-sized shot can hit as hard or penetrate as deeply, on any per-pellet comparison, as a larger size of shot.

A lot of experimental study has gone into determining how much total energy must be delivered on game to kill it efficiently, and with minimum crippling. Since this varies with the life tenacity of the various species, plus young versus old birds, the results of those studies are merely averages of many thousands of specimens. Naturally, from a sporting standpoint, it's always better to under-kill rather than to under-kill game. The following figures tend to err in that proper direction.

The usual and most frequently used measuring stick is this: it takes five Number 5 shot pellets to kill ducks the size of mallards at a range of 40 yards cleanly. Fired from game loads, which develop 1330 fps at the muzzle, each Number 5 pellet retains 3.56 foot pounds of energy at its 40 yard impact. Thus, the lethal impact of the five pellets totals 17.8 foot pounds.

At the same range, but using Number 6 shot, it would take seven pellets—each carrying 2.50 foot pounds of energy, and totaling 17.5 foot pounds, to achieve comparable killing power and shock. Similarly, if using Number 4 shot, it would take only four pellets to make a clean kill. Each of these packs 4.77 foot pounds of wallop, or a total of over 19.0 foot pounds.

At the estimated 65 yards at which we were shooting mallards, Number 6 shot would deliver 1.50 foot pounds each, Number 5's would pack about 2.25 foot pounds apiece, and the copper-coated Number 4's would deliver approximately 3 foot pounds of en-

ergy per pellet. All of these shot sizes also suffered corresponding loss of penetrating power during their flight from muzzle to target.

Thus, if we take the arbitrary figure of 17.8 foot pounds as close to the minimum lethal shot dosage, we were probably hitting our ducks with an average of six or more Number 4's to drop those drakes so cleanly. We didn't run an exact check on the average number of hits per bird, but I recall that they evidenced surprisingly good pellet distribution from our overlapping shot patterns. As a matter of fact, while we were plucking the birds, John mentioned that a couple of them had taken as many as ten hits apiece from the crossfire of those copper-coated 4's.

I have talked only of the foot pound energy which different shot sizes provide at several ranges. But there is another factor in shot pellet efficiency which is little understood: the pyramiding effect of hits by multiple pellets. To make this most easily understood, let us confine ourselves to only one shot size.

The natural, and correct, belief that the killing power exerted on game is directly proportioned to the number of pellet hits on the game tells only part of the story. The shock factor that each additional pellet hit produces is a much more potent factor in grassing game. And that shock factor doesn't perform according to a simple mathematical progression.

A mallard drake, if struck with only one pellet of Number 4 shot, suffers the actual amount of physical damage that pellet produces. But he also suffers a certain amount of nervous shock which, for want of a simple

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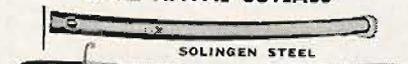
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way of describing it, I'm going to indicate by the algebraic symbol x . If that drake is struck by two pellets, the tissue damage doubles, but the amount of nervous shock suffered leaps to the square of the number of hits—or $4x$. Three hits treble the physical damage, but raise the shock factor to $9x$. Four hits thus yield $16x$ of shock, and five hits raise it to $25x$.

This rapid progression of fatal nervous shock explains why there are many cases of cleanly-killed game, even when loads of fine shot are used at reasonable ranges. Often not one of those small pellets penetrates to the vitals, yet the bird is killed because the numerous pellets striking it distribute a large amount of fatal nervous shock. It is obvious that fine-shot loads contain many more pellets per ounce or per load of equal weight, and their cumulative shock is greater than far fewer hits of the coarser sizes of shot.

I am, of course, not talking of those cases where a lone pellet slips into the brain, or damages the main nerve trunk of the backbone. Such freak kills, while instantaneous, are mere accidents.

I've several times picked up strong-flying birds that suddenly and inexplicably collapsed without my ever having fired a shot at them. These ranged from ducks through pheasants and, in at least two cases, included Greater Canada geese. The completely natural explanation is that those were cripples, usually hit with only one or two large shot pellets. These birds, flying away from hunters who had hit them with sub-lethal patterns, survived until they simply ran out of gas.

One such case concerned an Ohio cock pheasant that came flying by some 100 yards away, then suddenly cartwheeled out of the sky. He had obviously fallen dead. I carefully marked the spot and detoured to get him. That evening, when I skinned him, I found that he'd been hit with just one pellet, approximately broadside through the lungs. That pellet, which I guessed was a Number 4, had gone all the way through. Comically enough, our party of three needed that bird to fill our day's limits.

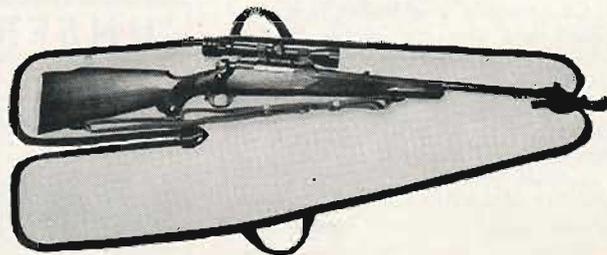
Another instance concerned a mallard drake. Sitting in my blind I saw this loner coming and readied to take him as soon as he got within range. But, to my utter confusion, just as I leveled down on him, he plunged in among my decoys and floated there, belly up. Crippled somewhere else, he had lived long enough to be sighted and salvaged, instead of becoming raccoon or hawk bait. He also was a one pellet kill.

As I said, these were freak occurrences. The thing to keep in mind is that the shot size you use carries a certain, non-variable energy factor with it. Hit that bird squarely with enough pellets, and he'll go down. But even if you don't have an instantaneous kill, that x shock factor will grass the bird for you, providing you use a shot size that is adequate for the job.

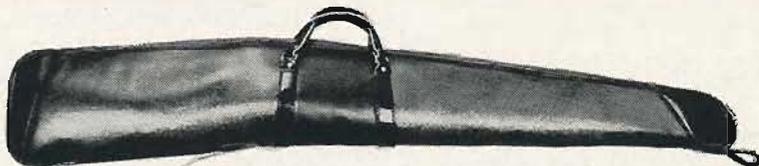
Keep your eyes on those "no-hit" birds this coming season. Chances are good that you'll find the bird you thought you missed, killed by remaining pellet energy and that unpredictable x shock factor. And don't be ashamed to use shot a bit bigger than that used by your hunting buddies. It will help you to get your limit.



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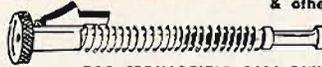


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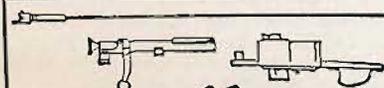
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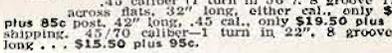
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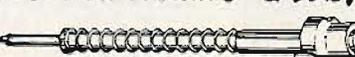
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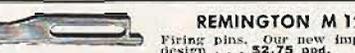
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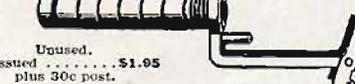
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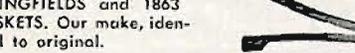


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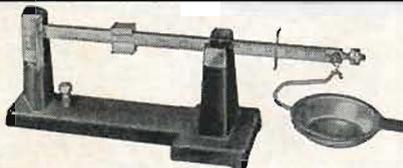
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WILL THIS GUN OBSOLETE THE ATOM?

(Continued from page 23)

Electronic Devices by Spring on its exploration of optical maser (laser) applications divided into two categories—space and tactical weapon systems, "with emphasis on the former."

Implementation: "Army's Frankfort Arsenal will soon award a contract for development of a hand optical maser, capable of generating high-density radiation, for experimental purposes."

Progress report, same published source, in April: "As an anti-personnel or anti-tank weapon the device (optical maser radiation weapon) would be useful, but, some industry sources speculate, is roughly like shooting pheasants with an elephant gun. Nevertheless, these applications are being investigated by Army agencies."

By this time, I was reluctantly discarding all the complicated lore which the firearms fraternity has painstakingly collected over the centuries. Discarded are recoil, windage, elevation, bullet drift, headspace, lock time, ballistic coefficient, et cetera. No use searching the literature of firearms; what I needed was a physics textbook.

Visible light, household radio waves, radiant heat, X-rays, radar, the ultraviolet that sunburns and cures rickets, the deadly gamma rays from radium, the mysterious cosmic rays—all are electromagnetic energy radiated at the same speed in pulses called waves. Together, they add up to the electromagnetic spectrum. Real short waves are known as rays. All bands in the spectrum have been mentioned as death ray material.

The speed of light—186,000 miles or 300,000,000 meters per second—is constant, according to Einstein, and nothing in the universe can ever top it. The difference between these apparently dissimilar forms of radiant energy is simply the number of waves "broadcast" each second, the "frequency" expressed as thousands of cycles (kilocycles—kc) or millions of cycles (megacycles—mc) per second. It follows that wave length, the distance each burst of energy can travel during one cycle before the next wave starts on its way, must get shorter as the frequency increases.

Thus, house current at 60 cycles per second tosses out a mild wave 3,000 miles long. And when you look at a violet iris, the flower—absorbing all other color frequencies—bounces a beam into your eyes with a frequency of 750,000,000 megacycles and a wave length of 41 microns.

Our eyes are really "radio receivers" tuned to respond to the narrow band of frequencies comprising the rainbow colors in daylight. The heat perception centers of our skin are also tiny radio sets tuned to the next longer radiations in the infrared band. The broad spread of the electromagnetic spectrum starts with harmless low frequency long wave radio, and ends with cosmic rays so infinites-

imally small (and therefore oscillating so intensively) that they penetrate 14 feet of lead. The sequence is radio (including TV, shortwave, microwave), infrared, visible light, ultraviolet, X-ray, gamma ray, cosmic ray.

Radio waves run from around 18 miles down to fractions of an inch in length. The next two shorter bands are infrared and visible light. The range of light, usually given in Angstrom units running 250 million to the inch, is 7,000 A. to 4,000 A. Still shorter are the hazardous and invisible ultraviolet rays from 4,000 A. to below 2,000 A.; and, next, the band of lethal X-rays, one-thousandth as long as light rays, measuring one-billionth of a centimeter. At the bottom of the heap are the devastating cosmic rays, 1/45th as long as X-rays, which have been detected 400 feet below the ocean waves.

The original and biggest possible "Death Ray" gun is the sun. Fortunately, the earth's atmosphere slows down and stops incoming murderous radiation, just as cotton batting stops a slug in the ballistic laboratory. The lethal rays produced by the sun's 11,000°F. incandescence are blocked so effectively that the average sunbeam runs 43 per cent visible light, 42 per cent infrared, and 15 per cent ultraviolet. Man has duplicated most natural radiation, with the exception of cosmic rays, the deadliest.

Almost all hands in the spectrum have been harnessed to work for industry. Ultraviolet puts vitamin D in breakfast fodder, kills germs. X-rays inspect castings, control hot slab dimensions in steel mills, help your doctor see what's wrong inside your body. Tunnels of infrared lamps bake paint jobs in auto factories. And so on. In warfare, the first death ray weapon was the family of atomic and hydrogen bombs. The second was the warhead of the Nike-Zeus. According to one writer, when this anti-missile is exploded near a hostile ICBM, "the neutron particles released by the Nike-Zeus detonation will cause nonexplosive fission within the ICBM and, like a powder which burns in the open instead of exploding, its energy will be released harmlessly."

X-rays are emitted by cathode ray tubes, radar by klystrons and magnetrons, electric light by the 3,000 F. heat in the tungsten filament of a light bulb. Just as the coal-fired steam engine dominated the 19th Century, experts predict that the laser-maser breakthrough will set the pace for the technology of the next century.

It was the invention of the optical maser or laser that took death rays out of the realm of fantasy fiction. It catapulted the electromagnetic spectrum squarely into the mainstream of history. Untold benefits to mankind are foreseen: a single light maser beam can carry as much information as all the radio communication channels now in

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existence, according to Bell Telephone Laboratories. This is the reason why the recently granted basic patent on the maser was made available to the public and not stashed away in a Washington vault. Since then, masers and lasers have been freely discussed, but usually only within the narrow confines of the electronic industries.

Maser stands for the initials in "Micro-wave Amplification by Stimulated Emission of Radiation." The word was coined by C. H. Townes of Columbia University, who invented it in 1954 as a laboratory instrument. The original maser material was ammonia gas chilled to near absolute zero (minus 459.6 F.). In 1958, Townes and Shawlow of Bell Labs proposed the modification of the maser, built to handle only radio waves around an inch long, to generate coherent light waves a billion times smaller.

The first extension of maser principles to actually operate on light frequencies was effected by Maiman of Hughes Aircraft in July, 1960. He called his solid-state ruby light maser a "laser," substituting "L" for light instead of the "M" for microwave. As noted, radio waves and visible light are both electromagnetic radiation, the former being—of course—invisible. Bell Tel Labs always call their visible light maser an optical maser. Optics is the science dealing with the properties of light.

Granddaddy of the ruby light maser is another solid-state device, the transistor. Scientists at "Mother Bell" also invented this in 1948 and collected a Noble Prize for it in 1956. Solid-state physics is the occult art of breathing life into a dead rock. Transistors, about the size of a pencil eraser, are wafers of pure man-made crystal to which a pinch of metal has been added in the melt. The metallic atoms then provide the electrical action. The addition or "doping" with (say) 0.05 per cent chrome while molten supplies the atoms which make the otherwise lifeless maser "mase" and the laser "lase."

The usual ruby optical maser consists of a helical Xenon flash tube surrounding a ruby rod, as in the diagram, but minus the funnel added in later Bell Tel model (shown in photo). The lamp drenches or "pumps" the ruby with light, exciting the chromium atoms, which then re-radiate this energy to the emerging beam.

Light waves, as they exist in nature or boil out of floor lamp, are all jumbled up, spaghetti-bowl fashion. The light maser lines them up vertically like slices in a long, square sandwich loaf, squeezes them into a needle or hair-thin beam, and stamps them out, 375,000,000,000,000 per second! Some light masers operate in pulses or bursts; new ones are continuous. The beam is enormously intense, sharply directional and collimated, completely coherent and monochromatic. Sides, almost parallel, are held within a cone angle of less than 1/10 degree.

Even in their infancy, the Light Squeezers already pack an awful wallop. An early Bell Lab development model of the ruby light maser vaporized carbon. Light squeezin's measuring less than 1 sq.cm. in cross section were given a final tightening by a lens to focus their 10,000 watt power output onto a point with 0.01 cm. diameter and 0.0001 sq.cm. area. Result: 100,000,000 watt power density.



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Savage

Here is a fast rundown on the rapidly developing light ray technology. The first long excursion by the new instant light took place in New Jersey, Oct. 5, 1960. One team of Bell Lab scientists let go with a ruby optical maser beam at Holmdel, and another caught it in a photomultiplier tube at Murray Hill 25 miles away. Beam spread was 200 feet for this lab model. The red flashes were clearly visible to the naked eye.

The first continuously operating light maser was announced by Bell Tel in February, 1961. This breakthrough was accomplished by a very sophisticated gas maser which also sharply reduced input power requirement by discarding the floodlight. Key to the radically different design is a weak electrical discharge through a mixture of helium and neon. This excites the dead helium atoms which then collide with the live neon atoms, transferring their energy billiard ball fashion. Thus stimulated, the bumped neon radiates light to the steady beam poking out.

The first ruby light maser to eliminate on-and-off microsecond pulses and operate continuously was unveiled by B.T.L. January, 1962. This was done by intensifying light pumping five times. Power requirements were chopped. Ruby originally needed over a thousand kilowatts for pulsed operation, now it'll run steady on 850 watts. Still present: heavy refrigeration (liquid nitrogen), modest milliwatt output, short range.

What portent does the ruby light maser generated ray hold for the future?

Here's the way the ball is bouncing:

In 1957, the National Inventors Council in its "Inventions Wanted by the Armed Forces" brochure, listed #450: "Destructive Ray—Equipment of usable size capable of producing destructive or death rays."

In 1959, the next edition of "Inventions Wanted" listed #450 as "cancelled." The problem was being handled.

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More on this subject in a later issue.

—Editor.

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Poor Jesse!

THEY'RE saying now that the whole bit about "the dirty little coward who shot Mr. Howard" was a frame-up, that Bob Ford never "laid poor Jesse in his grave" at all—not by about 70 years! They tell us now that Jesse really lived to the exceedingly ripe old age of 107 years. It sounds just like Jesse; he always liked to do things in a big way.

But if this is true, one wonders what he used for money after he quit the outlaw business. Jesse's work had all the advantages of professional baseball—short hours, long vacations, outdoor sport, and plenty of excitement—but it never made him wealthy. A run-of-the-mill second baseman with a second division team today makes more money than Jesse, and he was the Babe Ruth of bank robbers. Let's look at the records.

The biggest "job" the James boys did was the hold-up of the bank in their home town, Liberty, Missouri: \$60,000 in cash and negotiable bonds. Of course, there are some who insist the James boys didn't pull this one, but let's give them the benefit of the doubt.

The three next-best James Brothers hauls netted \$40,000, \$30,000, and \$22,000 respectively. At least, those were the sums reported; there is a nasty rumor that bankers sometimes exaggerate their losses—but this is probably a gross libel.

On twelve other raids they averaged about \$10,000. Three times, their loot was less than \$1,000; and on more than one occasion they pounded out of town under fire with empty pockets.



With or without exaggeration, the James Gang's loot seems to have totalled about \$275,000. True, dollars were bigger then than they are now, but let's divide that by the number of men in each operation and by the number of years Jesse worked at his profession. Unless Jesse got more than one share in each instance, his pay works out to about \$1,890 a year. Subtract pay-offs to tipsters, hide-out landlords, and other essential assistants, and you leave poor Jesse with less than the pay of the bank clerks he bullied. Far less than the price on Jesse's head, "Dead or Alive"—which added to the hazards of his business.

The sad financial saga of the James Brothers may have been the basis for the tired old maxim, "Crime does not pay." There is room for doubt that this is true today, but the James boys never joined The Syndicate. . . . But they never paid income taxes, either. So maybe our tears are wasted. —By Lee Miller

GUN RACK

(Continued from page 17)

since a special bull gun was used in these tests and groups were minute of angle in practically all firing. When the groups spread, it was due to the 35 mph crosswind that finally forced us to terminate shooting the day these loads were tested.

J-B Bore Cleaner

Jim Brobst of 31 S. 3rd Street, Hamburg, Pa., has developed a very good bore cleaner in paste form. Called the J-B non-embedding bore cleaning compound, the two ounce jar retails for \$1.50 postpaid from him directly or from your gunshop.

We used the bore cleaning compound on several rifles, and found it to be satisfactory. The real surprise came when we tackled the cleaning of a badly neglected decorator gun that came to us for inspection. Customary cleaning procedures did clean the barrel, but visual inspection revealed considerable residual dirt in the barrel. Several patches of the J-B cleaner, followed once more with solvent-soaked patches, removed

more dirt. Final cleaning was done with a wire brush and the J-B cleaner. This treatment really did the trick and the bore emerged looking like new.

Brobst claimed that the cleaner would do wonders to black powder fouling. Well, we took one of the black powder rifles and shot it without cleaning until accuracy fell off badly. A couple of passes with a patch and some of the Brobst cleaner did the work for us. In all: a fine and good bore cleaner that does not appear to have an abrasive action on the bore.

Spanish Double

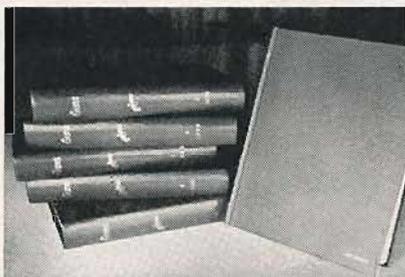
Richland Arms, Blissfield, Michigan, recently submitted a fine Spanish double for tests and evaluation. The gun, Model 223, is a side by side, available in 12 gauge and 20 gauge, with or without ventilated rib. We took to the gun like the proverbial duck to water, and found it to be a smooth handling, fast swinging gun that could hold its own in any company, even in regulation trap.

(Continued on page 65)



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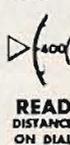
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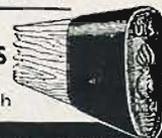
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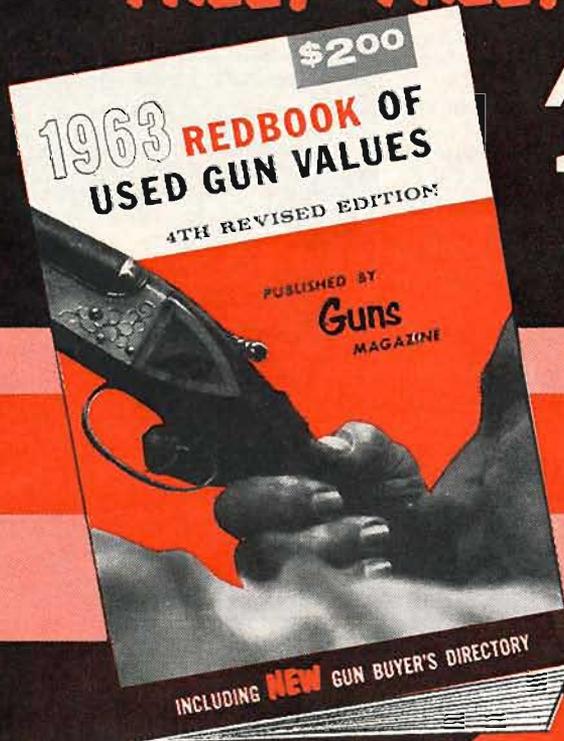
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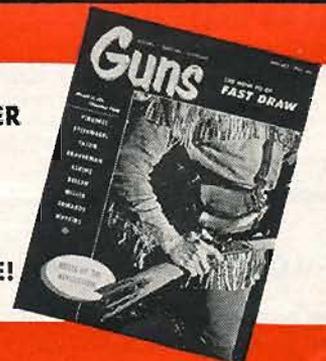
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(Continued from page 63)

The 12 gauge guns are chambered for the 2 3/4 inch shell, the 20 gauge guns come with 3 inch chambers. The double triggers function crisply, the safety is positive. We did find the little hump on the top tang safety hard on the thumb until we got used to moving it with the side of the thumb. Once or twice, the safety hung up, allowing the clay pigeon to escape until we reached out with the full choke barrel. Barrels, by the way, come modified and full in 28 inches, or improved cylinder and modified in the 26 inch tubes.

The test gun was beautifully finished, highly polished Spanish walnut on stock and fore-arm, with some very fine hand engraving on the action. Checkering is all hand-work, making the over-all effect very pleasing. The gun is of the side lock variety with double safety sears. The receiver and side plates—the Holland and Holland-type side lock action is used—are finished in London Grey. In the European tradition, the gun opens and closes very stiffly, but this is a minor matter that one can get used to or can have taken care of by a competent gunsmith. Without ventilated rib, the Model 223

sells for \$139.95; with ventilated rib, the price goes up \$30.

Martini-Enfields

Century Arms, 54 Lake Street, St. Albans, Vermont, recently shipped us a Martini-Enfield Mark I rifle and some Kynoch ammo. A few passes with a bore cleaner and a brush cleaned the accumulated dirt easily, and it was surprising to see a practically new bore appear as cleaning progressed. The Martini-Enfield guns were made in two models, the Mark I and the Mark II. The latter has the short lever and thumb rest, while the Mark I has the long lever that is said to improve extraction in tropical climates. Externally, the gun we received had obviously seen use, but internally the gun was in NRA excellent condition.

The Martini-Enfield, it may be recalled, was at one time the official British military arm, and despite the age of the gun we tested, it does not seem surprising that the action has survived for so long. Lack of Kynoch ammunition in .577-450 precluded extensive tests, but at 100 yards from a sitting position, our gun grouped slightly over 3 1/4 inches. Commercial ammo is available and reloading is, of course, possible. The gun did create quite a stir at one of the local rifle ranges when we casually set up shop—and brought out a gun that was older than any of the shooters there. A fine plinker, a good conservation piece, and with a little cleaning up, the gun could even find a home over a fireplace. The actions are in good shape, and two or three friends are thinking about wildcatting the action. A good buy at \$19.50, either for shooting or decorating.

Redfield Variable Scope

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The mount provided, and the scope itself, was tested on four rifles from the old stand-

(Continued on page 68)

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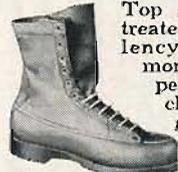
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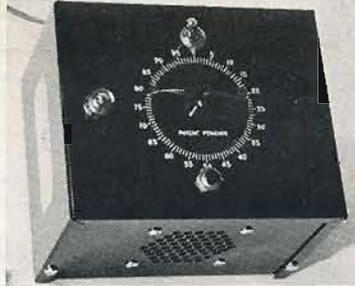


GUN STOCKS up to 47" long and revolver and pistol grips can be carved on No. 4 Carver Models Turn-O-Carve Tools, manufactured by Turn-O-Carve Tool, Inc., 9551 Domer Road, Santee, Calif. Stocks also take 3-dimensional carvings approx. 7" in diameter. Standard Model Turn-O-Carve Tool, from templates or originals, duplicates any kind of turning. Fits 7" to 12" wood or metal turning lathes and turns up to approx. 9" in diameter. Carver Model Tool used for wood carving, but retains turning features of Standard Model.



GUN LAMPS designed to blend with decor of home, lodge, cottage. Model 200 (pictured) Glisenti Revolver mounted on walnut base, has 3-way switch, ceramic ashtray. Sells for \$39.95. Model 300 is genuine German Mauser rifle which comes mounted on walnut base with three gun butt stock legs. Has 3-way switch, stands 66" high. Sells for \$47.95. Lamps available from Hunters Lodge, 200 So. Union St., Alexandria, Va.

PROFESSIONAL FAST-DRAW TIMER responds instantly to shock wave which stops timer to record split second time of fastest draw. Partner can release button which lights light and starts time period. Or timer



can be placed within legal 6" limit of holster so shooter can time himself. Timed accuracy to 1/100th of a second. Weight 3 lbs., 3 oz. Warm-up period approx. 1/2 minute. Priced at \$39.50 (plus tax and shipping charges). From the line of M. R. Crossman Co., 546 Hollywood Way, Burbank, Calif.



FAMOUS PAINTING, "Danger Ahead," captures mood of early Westerner facing unknown enemy with his Marlin rifle. Reproduced by Marlin Firearms Co., 79 Willow St., New Haven, Conn., from original by famous frontier artist, Frederic Remington. Re-created in oils by noted contemporary artist and reproduced on heavy paper suitable for framing in 20x30" prints. Priced \$1.00 ea. ppd.



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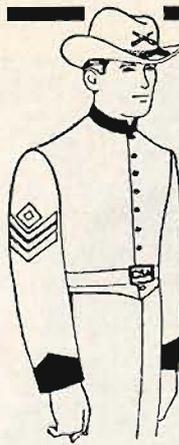
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CEMENTED CARBIDE **CARBOLLOY** (TRADE MARK)
P. O. BOX 226 • COVINA, CALIF.

(Continued from page 65)

by .30-'06 right up to the newest Remington
7mm Magnum. Recoil did not affect the
optical qualities, and fogging tests were non-
productive. It is also noteworthy to report
that extreme changes in elevation and wind-
age did not in any way affect the location
of the reticle.

The new Redfield scope comes with stand-
ard crosshairs, but post and dot are available
on special order. For the varmint, a varia-
ble scope is often a must, and we have found
this scope helpful on several of the guns
that arrived for tests. Priced at \$99.50 with
standard reticle, dot or post will up the ante
another \$9. This scope is sure to please a
lot of shooters.

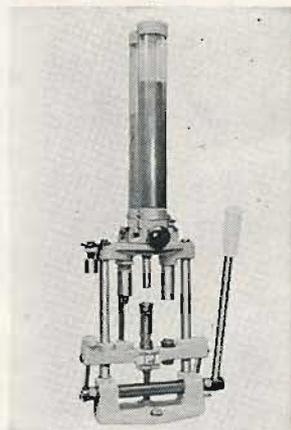
Aluminum Pots

Recently we received a sample of Campfoil
—a heavy duty aluminum foil sold by Don-
lee Metal Products Co., 14 Carner Ave.,
Rutherford, New Jersey. The kit, containing
a roll of heavy duty foil, directions on how
to use the foil in making pots, and ample
wire to form pots, retails directly from
Donlee for the relatively painless sum of
\$1.10, postpaid!

The heavy wire that comes with the pack-
age easily forms into handle and rim for a
pot, and then the foil is folded over it to
make a camp pot or skillet. It takes a little
practice to form the cooking utensils, but
once they are formed, we found that they
could be used a number of times especially
when only water was boiled or cleaning was
complete. The Campfoil is tough enough to
hold weight, and the kit is a worthwhile in-
vestment for any camper or hunter. Campfoil
is light and packs flat for easy carrying.

Pacific's DL-250

Bob Deitemeyer of Pacific Gun Sight Com-
pany, Lincoln, Nebraska, recently mailed us
one of these new shotshell tools. This is
very sturdy tool with large powder and shot
hoppers that are a blessing to the busy hand-
loader. It took six boxes of smoothboore
fodder to get near the advertised speed of
250 hulls per hour, but that is a matter of
manual dexterity and practice.



This is not a high-speed progressive load-
er, but is a tool designed for the trap and
sneet shooter or hunter who is willing to
spend a couple of hours cooking up a load
of shells for the weekend.

The shell must be handled a number of
times, and several visitors to our gunroom,
despite reading the instructions, neglected to
follow them. Most important in using the
DL-250 is to remember to place the hull into

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the re-sizing die and then bring the platen up. Most fellows merely placed the hull on the platen and then, with a swift move of the handle, managed to get the shell loused up in the die. There is no excuse for this. The instructions clearly state the step-by-step method of loading, and then it becomes merely a question of having all components handy for speedy loading. This DL-250 requires that the wad pressure be set only once, and the subsequent wad seating operations are carried out by simply moving the handle down until it hits a positive stop.

This is a rugged tool that will serve you a long time, and that produces neat looking reloads. We loaded some Mark V hulls, fired them, reloaded them, and kept going until the hulls were worn out. Even after four and five reloads, the finished shell looked good and performed well in a Model 12, the Breda Mark II, and a Fox B-ST. The DL-250 retails for just under \$100, comes in all standard gauges, including Magnum for 12, 20, and .410.

Walther Pistols

We recently had the opportunity to fire a WW II vintage Walther P-38 and one of the new commercial Walther guns, now imported by Centennial Arms Corp., 3318 W. Devon Ave., Chicago 45, Ill. Although the WW II gun was in NRA-excellent condition, the Walther-Mars gun was far superior in accuracy, functioning, and handling. Centennial



PPK at left, WWII P-38 at right.

Arms is now the sole U.S. distributor of these fine German guns, and they are now offering the complete Walther line.

The P-38, 9 mm Parabellum, holds 8 cartridges, has an overall length of 8 7/16 inches. This is one of the few semi-automatic pistols that can be carried with a cartridge in the chamber with complete safety, and application of the safety uncocks the hammer after the firing pin becomes locked. In the near future, more Walther guns will be imported by Centennial, including target .22 rim-fire rifles and hunting rifles. The PPK, caliber .380, is slated to sell for \$67.50, while the P-38 will retail for \$93.50.

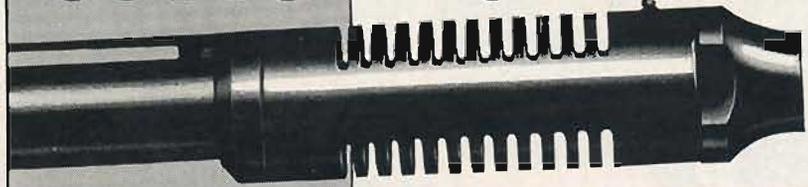
Hodgdon Data

Bruce Hodgdon, the powder man from Shawnee-Mission, Kansas, now has lots of Ball C powder. Designated as Lot No. 2, he and his staff have worked up some dandy loads and loading data which are now available for this powder. We checked a couple of .257 Roberts loads and, with our Avtron chronograph, came very close to his fps data. The same held true for some .222 loads. New loading data for H450 are also available.

Bruce quite correctly suggests that the first test loads be cut by 5 per cent during the hot weather season. With our .257 Roberts, we found a load of 31.5 grains of Ball C, Lot No. 2, with the 87 gr. Speer bullet,

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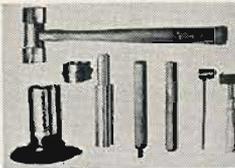
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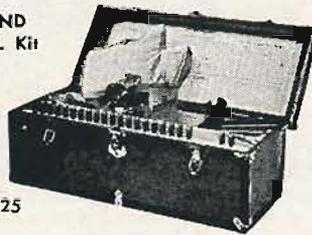
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S&W Model 41 .22 Automatic.	100.00
HIGH STANDARD SPORT-King.	54.95
HIGH STANDARD Supermatic Citation.	89.95
Win. 52-D Target rifle Std. or Hvy.	145.00
Rem. 513TR target rifle.	88.95
Colt Scout Buntline 22 Mag.	59.50
Win. Model 12 Std. 12 Ga.	109.15
S&W "K" Series .22 and .38 Cal.	81.00
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3737 14th Avenue Rock Island, Ill.

to chronograph just 23 fps less than Bruce's data. This is partly explained by the fact that we used a Mannlicher-Schonauer with short barrel; and, of course, there is a variation from gun to gun.

Delta Gun Lock

Some of our pet rifles are equipped with supersensitive triggers and we hate to see those triggers snapped when visitors invade our gunroom. To prevent trigger and action tinkering, we placed a couple of Delta Gun Locks on these guns. To be had from your gunshop, the Delta Gun Lock retails for \$3.95 and the various models on the market fit a wide variety of guns. The locks fit shotguns, rifles, and handguns, so be sure to specify which gun you want to lock when you ask your gunsmith for these gun locks.

Coats of Many Colors

The Massachusetts Hunter Safety Color Study Report tells us that fluorescent orange is the color hunters should wear in the woods—not the traditional red, which was long ago proved ineffectual, and not yellow, which was recommended by another color study group a few years ago.

According to this new report, yellow is often mistaken for white, even by people with strong normal vision. The center of the human retina is not sensitive to yellow, and when the eye is focused on a yellow spot it may appear white—the color of a deer's tail! Yellow also looks white in dim light, as at dusk or dawn.

"Blaze orange," as it is called, converts blue and green light and ultra-violet rays to visible orange color that seems to glow. It can be seen under most field conditions, and looks even brighter in shade than in open light because of contrast.

So there goes that relatively new yellow hunting coat to join the old red one you discarded years ago. Is "planned obsolescence" creeping into new fields? If so, it's worth it if it prevents even one hunting casualty.

Case Cleaner

Winfield Laboratories, 1750 Harding Road, Northfield, Ill., now markets the Davy Williams Case Life brass cleaner. This is a solution that comes in a jar. After decapping the brass, you simply dump the cases into the solution. After two hours or an overnight soaking, just take the cases out, rinse them under the tap, and air dry them. Brass comes out looking like new and, best of all, primer pockets and flash holes are cleaned of all powder and primer residue.

We have used a batch of Case Life for some weeks with very good results. For comparison purposes, we loaded and fired .38 caliber Monarch brass, loading one batch right after decapping, running another batch through the Case Life bath. Case Life solution does not appear to lose any of its solvent powers and the amount of accumulated dirt on the bottom of the jar stands mute witness to its efficiency. Case Life is non-toxic, does not harm hands or clothing, and you can add up to 50 per cent water to the original solution as it gets used up. We plan to use this

THE GUN MARKET

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(on sale Aug. 25) Is July 7. Print ad carefully and mail to GUNS Magazine, 8150 North Central Park Blvd., Skokie, Ill.

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MILITARY COLLECTORS. Huge 1962 photo illustrated War Relic catalog now ready. Excellent reference. Lists hundreds of quality items: Uniforms, Helmets, Edged Weapons, Medals, etc. Nazi, British, U.S., and Misc. Foreign. \$1.00 P.P. E. Frank, Hwy. 33, Freehold, N. J.

DISPOSING OF Military Collection: 18 American Miniature medals—\$9.00; 29 French Medals, regulation size—\$15.00; 6 Nazi Badges—\$4.25; 8 Nazi Medals with ribbons—\$6.50—satisfaction or refund—Hobbies, 550F Fifth Ave., N.Y., N.Y.

LEG IRONS, \$7.95; Handcuffs, \$7.95; Thumbcuffs, \$9.95. Leather Restraints. Collector's specialties. Catalog 50c. Thomas Ferrick, Box 12-G, Newburyport, Mass.

CIVIL WAR Relics unearthed Vicksburg Battlefield. *Guns, Oddities. List 25c. Mini-Balls 50c, 4 for dollar postpaid. Farish's, Vicksburg, Mississippi.

JUST RETURNED From Europe. Many fine military relics, curios and military miniatures. 2806 Ridgeland Rd., Torrance, Calif.

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CANNON FUSE 3/82" dia., waterproof, burns under water; 10 ft., \$1; 25 ft., \$2, ppd. William Zeller, Kell Hwy., Hudson, Mich.

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(Continued from page 71)

and having a chance to put the fancier version of this gun in 12 gauge through its paces was a sheer pleasure. The new B-ST features the same hand-filling beavertail fore-end that has endeared the earlier model to many shooters. Added and certainly helpful, on the range and in the looks department, is the ventilated rib. This Fox gun is the only side-by-side double made in the United States that the average man can afford, and the price tag of \$115.50 is most reasonable. The gun is available in 12, 16, and 20 gauge for 2 3/4" shells, while the .410 version is chambered for the 3" hulls. The single trigger gun has the same stock proportions as the double trigger Model B, which has a slimmer and somewhat tapered fore-end.

If it is a double you are looking for, then by all means, give those two Fox guns serious consideration—they are dandies.

Meal In A Can

It has happened to all of us on a deer stand, in a duck blind, or on the range: it is time for something to eat, but the chuck wagon is not around. For all of 39 cents you can now get a meal in a can, and there is a choice of chocolate or vanilla flavor in a 400 calorie meal that is nutritionally complete. This canned miracle is sold in grocery and drug stores, should make its appearance in sporting goods stores shortly, and is known under the name of Nutrament.



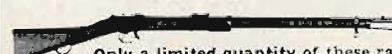
We took a couple of cans along the other week, while doing some testing of new ammo. Came noon and the scramble for the nearest hot dog stand left us alone at the shooting bench. Out came the can opener and two cans of Nutrament. There is nothing wrong with our appetite that four squares a day won't cure, but one can of Nutrament did the trick for us. We are keeping the other can handy for a long car trip. It does not compare to fresh deer liver broiled over the camp fire, but then how often does one get this kind of fare?

Lyman Wax Bullets

Lyman Gun Sight Corporation has something for all shooters, and their latest is perhaps the most versatile item in their line. Called Accra-Wax, this handy little package contains everything that you need to make wax bullets without fuss or bother. The wax bullets have good accuracy, are fired with the help of a primer only, and they make ideal indoor fodder for either your handguns or rifles. Primer noise with Accra-Wax bullets is minimal, and since there is no recoil, even heavy guns can be fired by a novice

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In case you are looking for parts for some of these old guns, or are interested in getting a good black powder gun that is a fine replica and shoots like a modern rifle, write to Dixie Gun Works for their illustrated catalog. Send fifty cents along, to help defray costs and the catalog is a warehouse of information. The Squirrel rifle, by the way, can easily be converted to a double set trigger gun, and triggers are available from Dixie Gun Works.



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22 L.R. Caliber. Available for the first time, 22 L.R. M1 Carbine. Specifications: 22 L.R. caliber—8 and 16 shot semi-auto.—U.S. Parkerized finish—16" barrel—weight 3 1/2 lbs.—adjustable peep sight. MID only \$49.95. Accessories: 16 shot double over and under magazine 16SM only \$6.00. TSM Special 4X telescopic sight and mount... only \$12.50. MC Compensator... only \$4.00.

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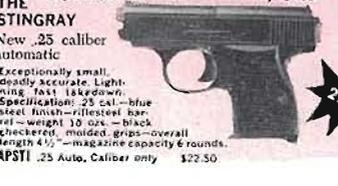
OLYMPIC MODEL Mauser Lock TARGET PISTOL

22 S. L. L.R. caliber and 22 Magnum caliber. This pistol combines all of the features that are desirable in a target pistol. Target stock—Mauser lock—helicoidal rifling—special light trigger pull—adjustable rear target sight and bullseye front sight. Specifications: Beautiful blue finish—finest all steel construction—22 S. L. L.R. or 22 Magnum caliber—weight 27 oz.—10" barrel—overall length 15"—walnut target stock. OP 22 S. L. L.R. only \$29.95 OPM 22 Magnum cal. \$32.50

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APBMP .22 L.R. Caliber. Now in 22 L.R. caliber. More fire power per ounce than any other pistol. Specifications: 22 L.R. caliber—weights 24 ounces—adjustable target sight—8 and 16 shot semi auto—stand and barrel, 7 1/2". Accessories: APBMP12 12" barrel only \$12.00. 16SM 16 shot double over and under magazine only \$6.00. TSM Special pistol scope and mount only \$14.95. MC Compensator only \$4.00.



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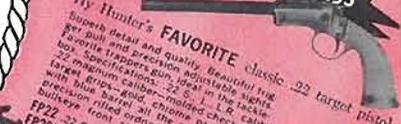
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22 SHORT CALIBER. 1900's Tiny Terror of the Underworld with Tuck Away folding trigger. Specifications: 22 caliber—6 shot revolver—metal blue or chrome finish—weights 9 ounce—single and double actions—5 1/2" barrel—overall length 5 1/2"—checkered, molded grips. RCCB Blue finish... only \$16.95. RCCB Chrome finish... only \$19.95.

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