

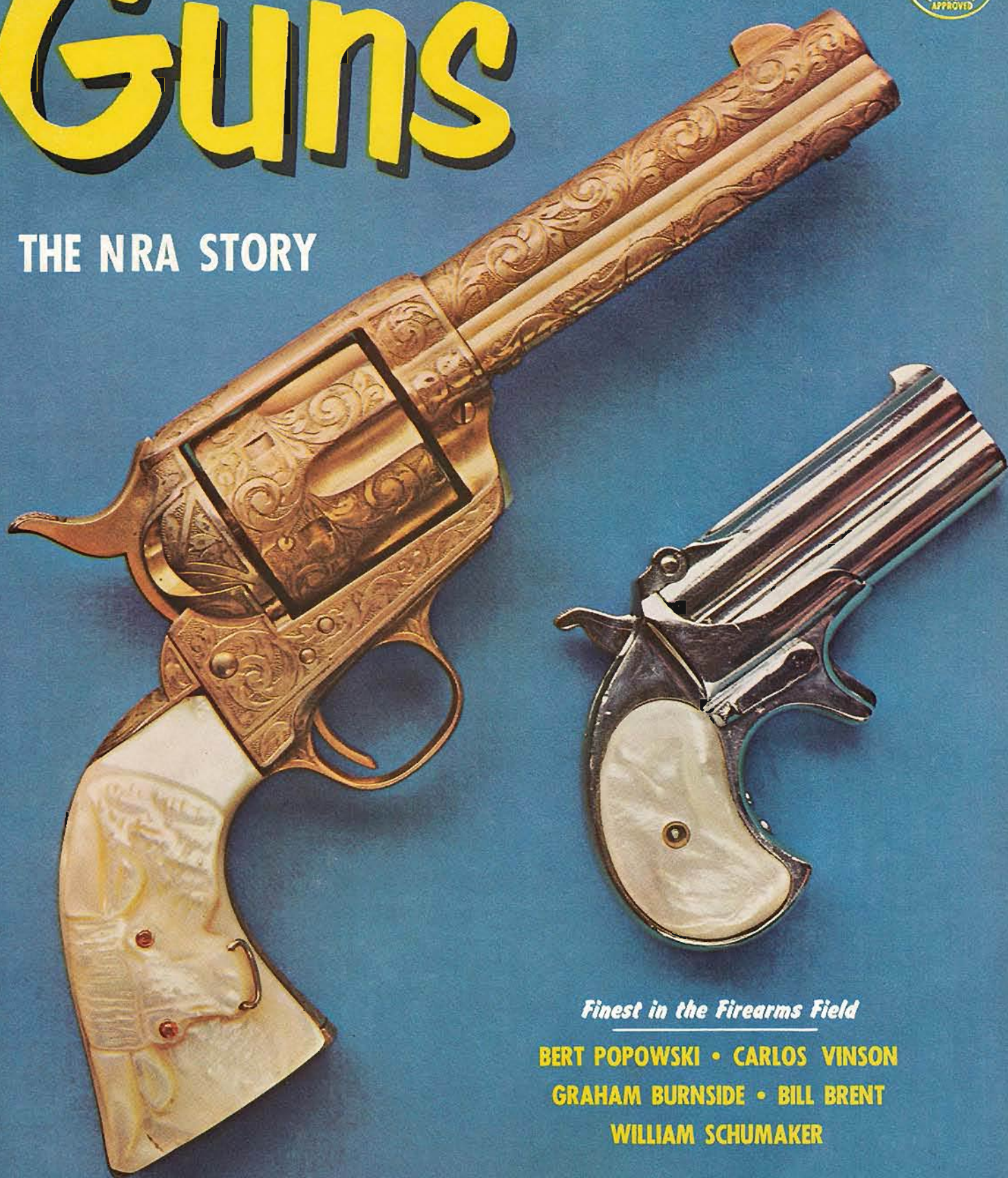
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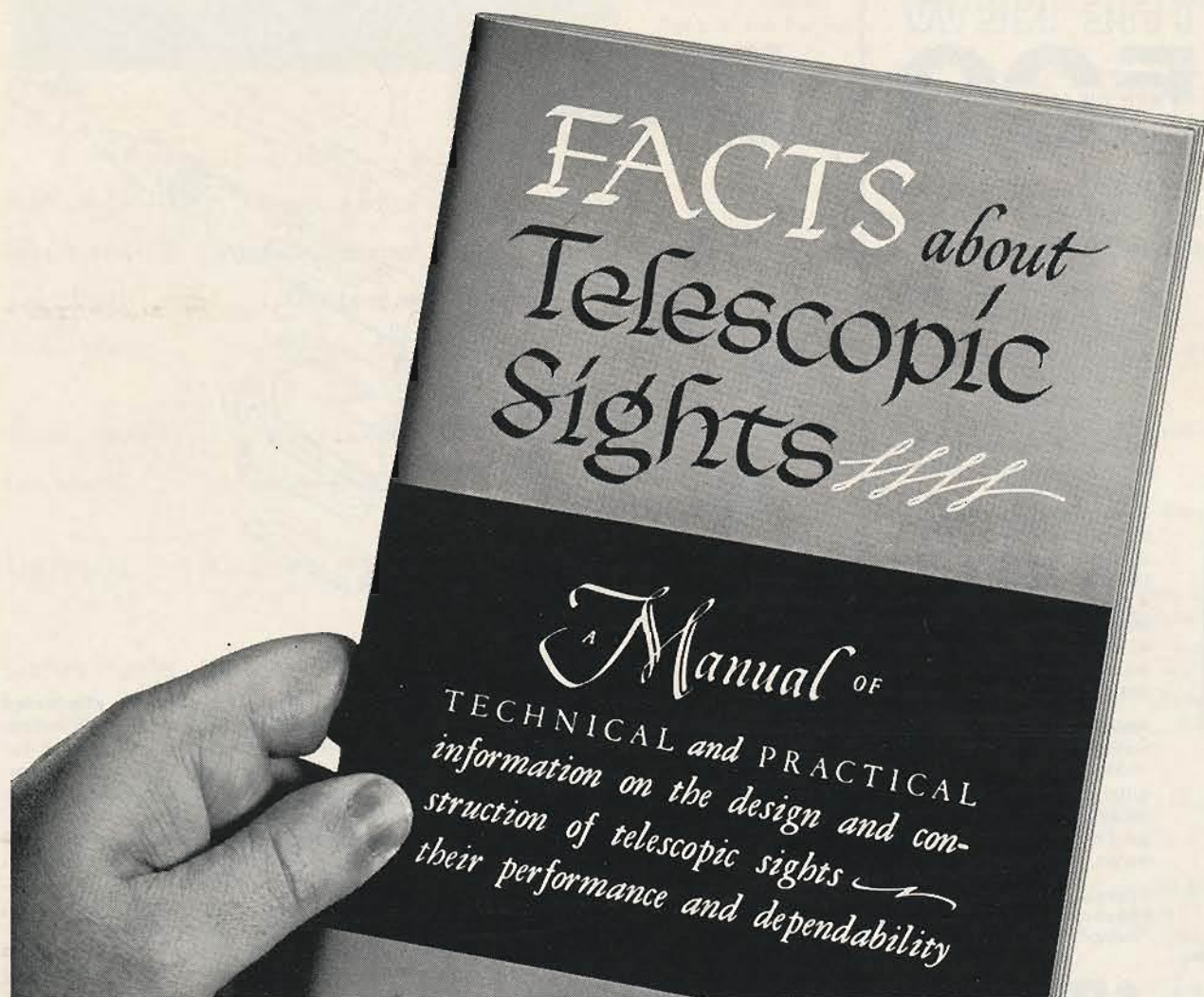
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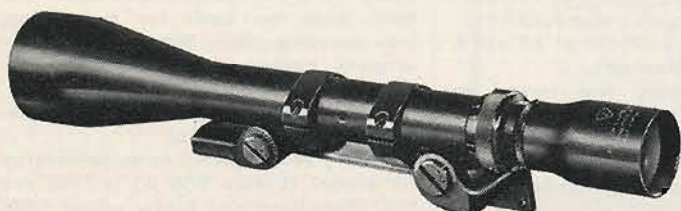
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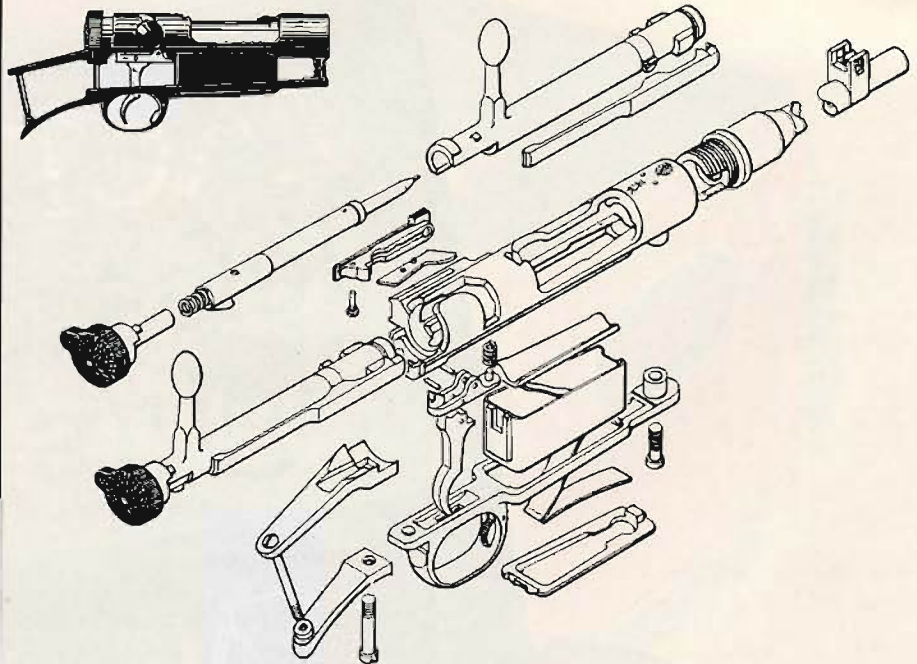
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AN INSIDE LOOK

AT THE ARISAKA M38 (1905)

By SHELLEY BRAVERMAN



IN 1905, a Japanese Military Commission headed by Colonel Arisaka adopted a modified version of their Model 30 (1897) rifle. The separate bolt face feature was eliminated, spitzer ammunition was adopted, and other mechanical improvements installed. The new cartridge drove a pointed 138 grain bullet about 2400 fps. The designations 30 and 38 represent years of the Emperor Meiji, whose reign began in 1868. Millions of the Model 38 were manufactured, and DWM marketed commercial ammunition for this gun.

Modifications encountered are: (1) Standard—50.2" overall; 31.4" barrel; 9¼ lbs. (2) Cadet Rifle—44½" overall; 8½ lbs. (3) Carbine, M/38—37" overall; 19.2" barrel; 8½ lbs. (4) Carbine, M/44—38½" overall; 19.2" barrel; attached, folding bayonet. (5) Sniper's Model, M/97—50.2" overall; 31" barrel; 2.5X telescopic sight. Common to all models are four-groove rifling; dust covers for breech mechanism; rear sights graduated, 400-2400 meters; bayonet lugs for standard 14½" sword bayonet (except the M/44 which has its bayonet attached).

The M/38 Carbine was issued to Transport and Engineer troops; the M/44 Carbine was issued to Cavalry units, and also used by Police units. In all models, the bolt plug doubles as a safety. Depressed and rotated to the right, it blocks the striker; rotated to the left, it is at "fire."

Muzzle flash is practically eliminated in the standard model, the long barrel providing the proper cubic content for complete combustion. The action is comparatively very strong, having withstood unusual tests. It has been reported that the wood of the stock, and possibly the tung lacquers employed, have caused allergic reactions to users. Muzzle covers are sometimes found, originally brass, later plastic.

Field Stripping: Hold bolt-stop open and withdraw bolt straight back. Bolt may be stripped by pressing and rotating bolt-plug (safety). When plug is eased out, striker and spring may be withdrawn. Turning extractor to right, forcing tongue out of groove, will permit its removal forward. The floor plate catch, inside the trigger guard, holds the floor plate, follower spring, and follower.

The Model 38 was issued to the Japanese Armed Forces in 1907 and used up to, and including, World War II. Many were remarkably well made and have been the basis for conversions into sporting rifles. When not keeping original caliber, they are converted to 6.5 mm Mannlicher-Schoenauer, or, if an unusually tight bore is encountered, to .257 Roberts.

A very few rifles were manufactured for export (before WW II) in 7x57 and 8x57. These are now highly prized collector's items.

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Guns

FINEST IN THE FIREARMS FIELD

APRIL, 1962

Vol. VIII, No. 4-88

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EDITORIAL OFFICES: E. B. Mann, R. A. Steindler, 8150 N. Central Park, Skokie, Ill., ORchard 5-5602.
W. B. Edwards, 843 Judson Ave., Evanston, Ill., Kent Bellah, St. Jo, Texas.

REPRESENTATIVES: NEW YORK, Eugene L. Pollock, 60 East 42nd St., New York 17, N. Y., YUkon
6-9280. WESTERN, Michael R. Simon, 8640 West Third St., Los Angeles 48, Calif., CRestview 4-2939.
MIDWEST ADV. OFFICES, 8150 N. Central Park Ave., Skokie, Ill., ORchard 5-6967.

GUNS Magazine is published monthly by Publishers' Development Corp., 8150 N. Central Park Avenue, Skokie, Illinois. Second class postage paid at Skokie, Illinois, and at additional mailing offices. SUBSCRIPTIONS: One year, \$6.00. Single copy 50c. CHANGE OF ADDRESS: Four weeks' notice required on all changes. Send old address as well as new. CONTRIBUTORS submitting manuscripts, photographs or drawings do so at their own risk. Material cannot be returned unless accompanied by sufficient postage. PAYMENT will be made at rates current at time of acceptance and will cover reproduction in any or all GUNS magazine editions. ADVERTISING RATES furnished on request. Copyright 1962, Publishers' Development Corporation. All rights reserved. Title to this publication passes to subscriber only on delivery to his address.

THE COVER

The gold plated Colt SA pictured is a factory engraved presentation piece, in .32 WCF caliber, Serial Number 253,768, mother of pearl grips set with ruby eyes and gold ring. The derringer is nickel plated, a .41 caliber Remington, mother of pearl grips, no serial number. Photo by Harry Kinney, of Albuquerque, N. M.

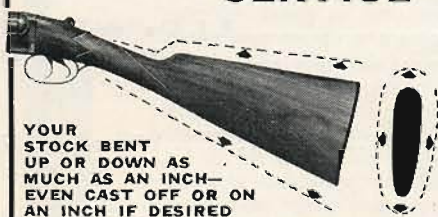
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GUN RACK



Colonel Whelen Is Dead

On December 23rd, at St. Luke's Hospital in St. Louis, Colonel Townsend Whelen died at the age of 84 years, after an illness that began in November. He was my friend—and, through his words both written and spoken, my teacher. But in this I am only one of millions, for he was the friend of all who love guns and shooting, of all who love the great outdoors and "the country back of beyond." America and the entire shooting world has lost a great friend, a great teacher.

Townsend Whelen enlisted in the United States Army in 1895, was commissioned Second Lieutenant in 1902. In 1903, he took part in the testing of the new .30 caliber Springfield rifle—the Springfield '03, caliber .30-06. In 1909, as a member of the Army Infantry Rifle Team, he won the Adjutant General's Match (1000 yards) with a new world record of 99x100. He became an officer in Ordnance during World War I. In the years following, he served with distinction in many posts of increasing responsibility having to do with the selection and development of military small arms and ammunition. Author of several books and countless articles on subjects related to guns, shooting, and outdoorsmanship, he has been for many years one of the most respected writers in the world on these subjects. In spite of heavily crippling physical disabilities, he was a shooter up to and including the very last week before his final illness.

The man is gone, but his name will live as long as men shoot, and hunt, and walk the far places. He will not be forgotten.—E.B.M.

"News From Nilo"

The search for new improvements in sporting arms and ammunition goes on constantly in the Winchester-Western labs, and last February, a considerable group of gun writers and editors were invited by W-W to Nilo Farms, their demonstration and experimental shooting preserve near East Alton, Ill., to see and hear about what's new for you in '62. We were royally entertained, and we saw some new products we (and you) will soon be using.

Releases just received permit us to report very briefly on two items: a new .44 Magnum cartridge, and a new and improved shotshell.

The new cartridge is designed specifically

for top performance and accuracy in .44 Magnum rifles and carbines. It carries a 240 grain Hollow Soft Point bullet which gives a controlled, uniform expansion on impact (to approximately double the caliber), insuring maximum shock and wound channel.

In a new tray-package of 20, the Super-X .44 Magnum Hollow Soft Point goes to retailers around the nation at a suggested retail price of \$3.35 per box of 20 cartridges.

The new shotshell, designated Super-X and Super-Speed Mark 5, is an improved version of the famous Super-X load. Extensive factory tests show that Mark 5 gives shooters, on both wild game and targets, "an extra margin of power and accuracy by providing denser patterns with a shorter shot string and greater effective range but without the increased recoil usually associated with greater power." Average improvement noted is 10 per cent in each of the characteristics mentioned, with a corresponding gain in hits.

The improvements are produced by a band of plastic wrapped around the shot charge, which shields and cushions the shot against deformation by barrel friction and inter-pellet contact, and then "shapes" the charge as it comes out of the muzzle to prevent wasteful dispersion of shot and loss of pattern density.

Mark 5 will be available in 12 gauge Super-X and Super-Speed, in 12, 16 and 20 ga. Super-X and Super-Speed Magnums, and in 12 gauge heavy trap loads, 7 1/2 and 8, in Xpert and Ranger. All at no increase in price!

We'll be testing these new loads soon and will give you detailed reports on them.

Quadra Thickness Gage

We have been using this imported thickness gauge for some time in loading precision test ammo. Miking the diameter of 100 wadcutters is a tedious process, and the Quadra Thickness Gage, selling complete in its own hardwood box for \$19.95, has saved us many hours of work.

This is a dial micrometer thickness gauge that is calibrated to 0.00025 of an inch and has a capacity of .500". The throat depth is 13/16th", and the 0.00025 calibration is more than adequate for even the most exacting handloader. The edged dial can be re-set to zero to compensate for temperature or humidity changes, and the 3/8" diameter hardened tool steel contact discs are ground to perfection.

Checking the diameter of 100 wadcutters took slightly less than an hour, and the direct reading scale is a joy to use. In measuring, just hold the gauge by the handle with the right hand and use the right thumb to depress the plunger that opens the gauge.

(Continued on page 65)

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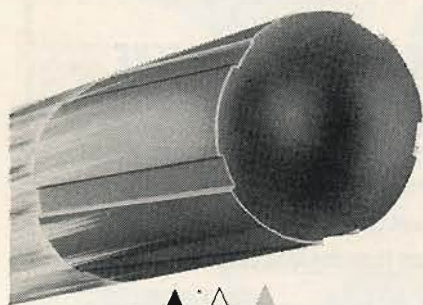
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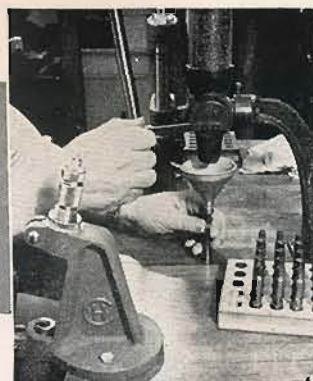


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HANDLOADING BENCH

By KENT BELLAH



Loading New S&W .38 Master

We members of The Hull Fillers & Cap Busters Association got a real Bang! (pun intended) out of playing with new types of ammo and guns in 1961. The last one was Smith & Wesson's new .38 Master, Model 52, for .38 Special Wadcutters only, on their Model 39 frame. As you know, the Model 39 is a neat, lightweight auto for the 9 mm Luger (Parabellum) cartridge. It was the first American-made double action auto, a military defense type. (Just why the military turned thumbs down on a light G.I. pistol for the world's most popular G.I. round, I'll never know.)

This is not a discussion of the military advantages of a 9 mm that is light weight, doesn't scare a rookie half to death, and expends many fewer tons of critical cartridge material and weight in wartime, with ammunition available around the world from friend or foe.

The .38 Master is hardly more than kissin' kin to the original. S&W had it in mind, even when they designed the 9 mm in 1954. Good idea, because it's a lead pipe cinch our G.I. sidearm in a target version will be used in competition. Sooner or later, probably later, our .45 ACP will make the graveyard of guns that have served armies of the world. Good it was, and is, but I'll join the ranks of those who shed no tears when the faithful Army Mule is laid to rest. About an equal number of people will call it a sad day.

(Last month, Harry Reeves expressed the opposite opinion. Which merely goes to prove that gun people are people with minds of their own—which, in turn, is what makes editing a gun magazine the most interesting job in the world!—Editor.)



The M39 frame is a good one for military or target guns. The military type frames are light alloy to reduce weight to a pleasant 26.5 ounces. The all steel M52, with a 5" barrel, is a decent 41 oz. for steady holding. You can fire it double action for defense practice by turning down the D.A. cut-off screw inside the frame, a real aid to practical shooting. The new S&W Micrometer Click rear sight has coin-slotted screws, and arrows to indicate which way to turn. This is an ammo and temper saver! Each click

moves the group $\frac{1}{4}$ or $\frac{1}{2}$ " for elevation at 25 yards.

The trigger let-off is a thing of joy. You can dry fire with the safety on without whamm-ing the firing pin. This is a fine feature, and the hammer block is positive.

Finished in S&W Bright Blue, beautiful and durable, the M52 is matted on the top to eliminate glare. Pistols are factory tuned to shoot 10-ring or better groups at 50 yards from a machine rest, with factory ammo. It hits well. It also hits your hip pocket for \$150, which is a hard blow. But considering what you buy, the price isn't high. I think it will give the center-fire revolvers a lot of trouble on the target lines. The advantage in timed and rapid fire is obvious, plus no change in your grip from shot to shot.

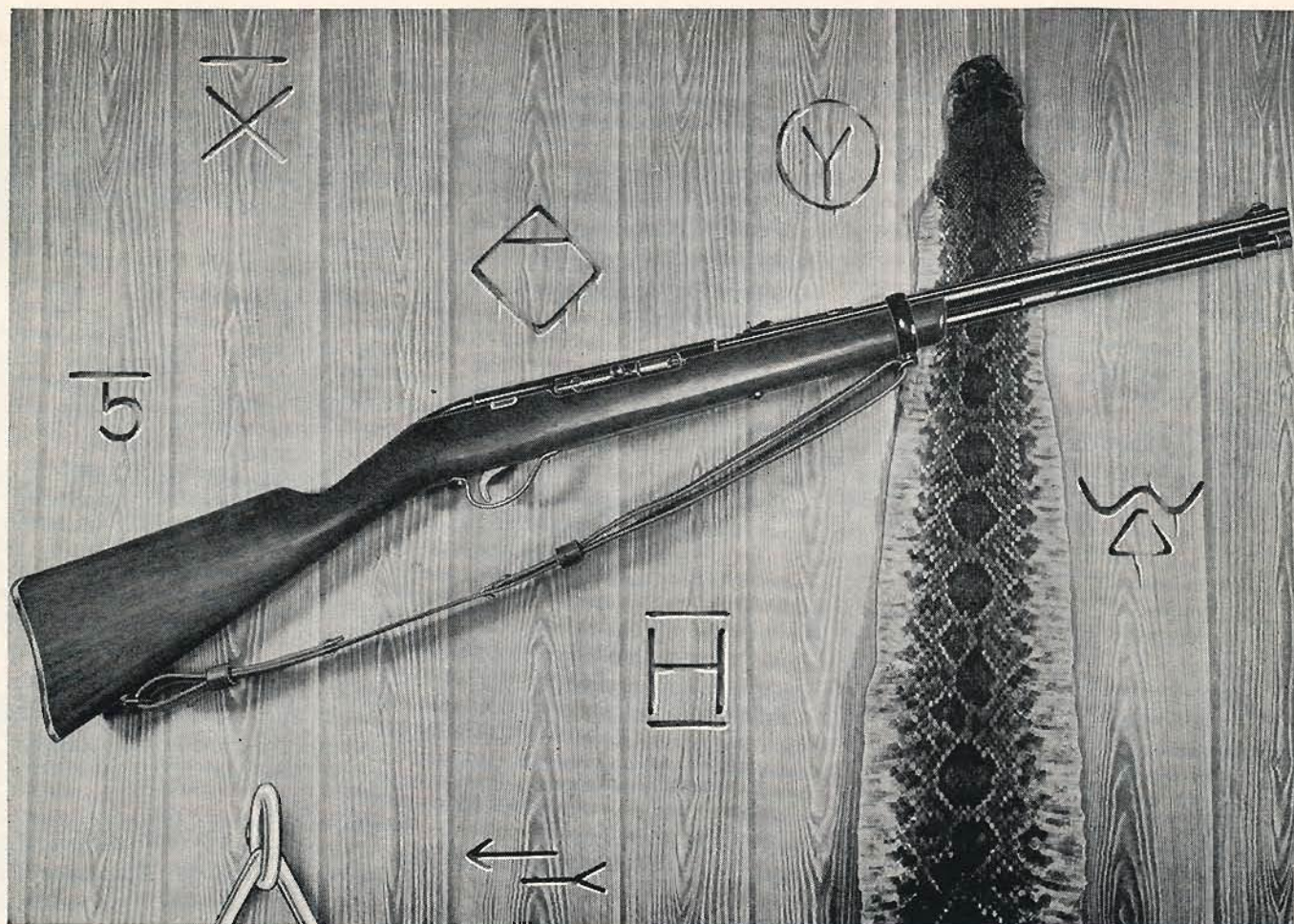
Practically all competitive shooters are reloaders. Here's the way to get fine accuracy in precision target reloads. The major cause of poor groups is sloppy ammo, often in the bullet, and just about as often in sloppy equipment. Let's do it right!

My gun has a .3546 groove, close to most custom barrels. It's slick as a deck of new cards, without a bobble in the bore. Western Super-Match lot 29SD02 and Remington Targetmaster lot W18E, both had match winning accuracy. S.A.A.M.I. lists .358 as maximum for wadcutters. One writer claimed the R-P went .3582. Perhaps he had some ancient ammo. The W-W pills miked .3553, the R-P .3551. Recent wadcutters run about this figure, or at least under max.

My stock reloads for a K-38 Target had Hensley & Gibbs No. 50 pills cast of Illinois Bullet Alloy No. 7, sized .358. Loads are 2.7 and 3.0 grains Bullseye, backed with CCI No. 500 (standard) primers. No leading was experienced, but the large bullets wouldn't equal factory ammo. Loads for my Colt guns are identical, except bullets are .356. The 2.7 grain charge grouped tight as a miser with his money. I believe this is about right for most guns. Even the 3.0 grains held its own at 50 yards, and 2.5 grain charges group well and function perfectly for 25 yard work. If you use this lightest charge, try 2.3 grains to be sure it will function. It does in my gun.

For the ultimate accuracy from a particular gun, use a hard alloy. A good commercial mix is best. Vary the diameter from as small as .354 to no more than .356. Use the H & G No. 50 or 50-BB, or Lyman's No. 358495. Order moulds to throw castings no larger than .0005 over your exact sizing diameter with your alloy. Variations in alloys cause variations in weight and diameter. Avoid oversize castings and a rickety sizer. Sizer dies should make the bullet bearing surface look like chrome

(Continued on page 48)



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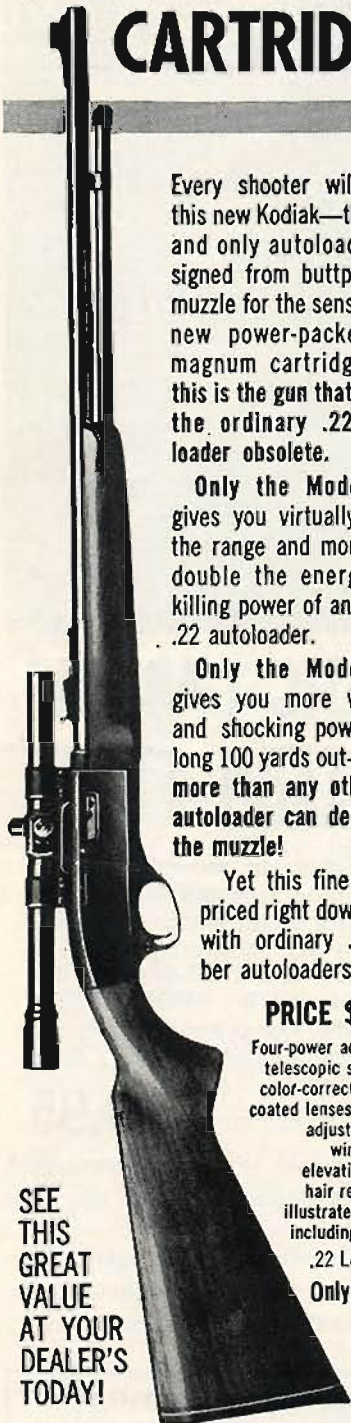
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Four-power achromatic telescopic sight with color-corrected, hard-coated lenses, internal adjustments for windage and elevation, cross-hair reticule, as illustrated, \$12.50 including mounts.

.22 Long Rifle
Only \$54.50



KODIAK MANUFACTURING COMPANY
 112 QUINNIPIAC AVE., NORTH HAVEN, CONN.



CROSSFIRE

Home Of A Pioneer

Some of your readers might be interested to know more about the photograph which appeared on page 18 of the January 1962 Issue of GUNS. It was taken by the famed pioneer photographer, William Henry Jackson, while accompanying the U.S. Geological Survey of the Territories in the summer of 1872. The view shows the interior of the cabin built by and occupied by Gilman Sawtell, in what is now Fremont County, Idaho.

Gilman 'went west' from Groton, Mass. in 1866, and was the first pioneer in that area. He built his cabin on the north shore of Henry's Lake, presently renowned for its trout, and spent the rest of his days fishing, hunting, farming, and guiding tourists into the newly opened Yellowstone Park. The nearest settlement of any kind was Virginia City, Montana, nearly 75 miles to the north, so it is no wonder that he maintained an imposing arsenal of firearms, both to protect him from marauding Indians and to provide game.

The original photograph and others of the series are filed in the National Archives and may be purchased by anyone interested. As Gilman Sawtell is an ancestor of mine I was much pleased to see his picture in GUNS. Incidentally, Gilman is the man seated on the left and the others are members of the survey party.

Your magazine is tops. Keep up the good work!

Thomas V. Sawtell
 New Haven, Conn.

Another Problem In Africa

I thought you might be interested in the enclosed newspaper story:

"Pretoria's 'Quickdraw' Pistol Club is threatened with sudden death—unless its members can get round a municipal by-law which bans the firing of guns within the municipal area.

"The sport was completely safe; only wax loads were fired from the western-style guns and the noise made by the weapons was less than that of a child's cap gun.

"Most of the 22 founder members are young and do not have the transport or the money to practise their sport outside the municipal area. Saturday afternoons are taken up with other organised sport.

"Their sport, however, constitutes a 'nuisance' in terms of the municipal by-law, and the only way they can get round it is by finding a reasonably soundproof hall or double garage in which to practise.

"Their ultimate aim is to snatch for South Africa the 'fastest gun alive' record, which is held by a Hollywood western films adviser, Arvo Ojala, with a draw of one-twelfth of a second.

"The founder of the club, Mr. Louis Denichand, said, 'We are not milkbar cowboys. All we are doing is providing a safe outlet for people who like a bit of fun and games with firearms.'"

How we envy you Americans with the ability to own as many guns as you please!

R. R. Jones
 Transvaal, South Africa

It isn't quite as easy as that, Mr. Jones, even in "the land of the free." We hope your friends in Pretoria found a place to shoot.
 —Editors.

That's Right

In re Gov. Elmer L. Anderson's, of Minnesota, reply to the question about the rights of citizens in connection with arms. Wasn't it in Northfield, Minn., the James-Younger gang was shot to doll rags by citizens?

Roger H. King
 Wichita Falls, Texas

"Finest In The Firearms Field"

I recently picked up an issue of GUNS at the newsstand because of an article by Wm. Toney, and saw where Harry Reeves is to be a future contributor.

With authorities like that writing for GUNS I wouldn't want to miss a month so attached is my subscription.

John C. Forman
 Allen Park, Mich.

Seeing Is Believing

I have seen some of the guns the government is destroying. Your article, "Your Guns are being Destroyed," inspired me to write some letters to Washington. I also presented the article to our gun club, and some members made copies of my letter to send to their friends and to send to Washington. I hope you will continue to fight for our guns and keep us posted.

I have so many magazines coming in that I can't get to them all. I had planned to discontinue yours, but this article alone was worth \$4.50. Keep up the good work and you can count on me.

Charles Dunlap
 Upland, California

For A Nation Of Riflemen

I just finished reading your article entitled "Your Guns Are Being Destroyed," in the December issue of GUNS Magazine. You are to be congratulated on this story.

I have for a long while wanted to see an M1 rifle or carbine in every home in this country. I think every able-bodied man should be given the privilege of keeping

(Continued on page 14)

ONE DOLLAR puts YOUR hand on these GUNS

\$169.50 VALUE!



SAVE \$50.00 NOW!

Spain's foremost quality shotgun maker, the Matador, has introduced a new line of guns. These are all latest 1962 models!

CHECK THESE QUALITY FEATURES: Selective automatic ejectors; . . . single selective trigger; . . . complete safety because of Anson & Dorey system with double underlocks; . . . hand engraved receiver; . . . firing pins individually spring mounted; . . . close grained hand checkered French Walnut stock and beavertail forend; . . . action proportioned for each gauge. All are chambered for all 2 3/4" high-velocity, Magnum or slug loads except for 410 gauge which takes either 3" or 2 1/2" loads.

CHOOSE FROM THIS BIG SELECTION OF GAUGES AND BARREL LENGTHS: (C20-T456) 12 gauge—28" or 30" barrel; (C20-T457) 16 gauge—26" or 28" barrel; (C20-T458) 20 gauge—26" or 28" barrel; (C20-T459) 410 gauge—26" or 28" barrel. 26" barrels are Improved Cylinder and Modified Choke (410 ga.—Modified and Full), 28" barrels are Modified and Full Choke (410 ga.—Full and Full), 20" barrels Full and Full Choke. State catalog number and barrel length.

Immediate delivery. Certified \$169.50 Value!

PAY ONLY \$1.00 DOWN, BALANCE \$6.24 A WEEK FOR 22 WEEKS, Or . . .

Matador 12 or 20 Ga. 3" Magnum Double. State choice: 28" or 30" barrels, Modified and full choke. C20-T666. Pay \$1.00 Down, Balance \$6.72 a week for 22 weeks, or . . .

ONCE-IN-A-LIFETIME GUN SALE!

NEW MATADOR 12, 16, 20 & 410 GAUGE DOUBLES!

SAVE \$50.00 NOW!

\$119.50

CASH

OR PAY \$1 DOWN
Balance \$6.24 a Week
For Only 22 Weeks

\$119.50

\$129.50

SPECIAL PURCHASE! TOP QUALITY!

VARIABLE POWER SCOPE! . . . 3X To 9X

Brand new! . . . First quality! . . . well known make! . . . a twist of the wrist you can have any power you want from 3 to 9. Fixed reticule is never off center—only image moves! Magnesium fluoride hard coated lenses, windage and elevation click stops, parallax corrected, nitrogen filled for fog proofing. Large eye piece and objective, 1" or 1 1/2" diameter. Overall 12", 14-oz. Compare to \$69.95 Scopes Elsewhere!

B20-T693. \$1.00 Down, \$1.77 a week for 22 weeks, or . . .

B20-T697. 2 1/2x to 8x SCOPE. Quality and features same as B20-T693 described above. Compare to \$49.95 Scopes. Pay \$1.00 Down, or \$27.85

B20-T698. 4x SCOPE. Quality and features same as B20-T693 described above. Compare to \$34.95 Scopes. Pay \$1.00 Down, or . . . \$19.85

B20-T694. Weaver Pivot Mount—\$9.85; . . . B20-T695 Weaver Top Mount—\$7.85. State make and model of your rifle.

SALE! NEW WINCHESTER AUTO SHOTGUN

Last Call!

SAVE \$46.07! Brand new Winchester Model 50 Automatic Shotgun. First quality, factory guaranteed, latest 1961 Model. 12 gauge, 30" barrel, full choke, 3-shot. Easy, fast takedown. Select Walnut pad. 28" barrel, full choke, 40" overall. Std. Wt.—8 1/2 lbs.

C20-T104. \$34.95 Mfr's List. Pay only \$1.00 down, balance \$4.60 a week for 22 weeks, or . . . \$88.95

SPECIAL PURCHASE! NEW MARLIN 55 "HUNTER"

30% OFF!

12 Gauge Repeater with Recoil Pad . . . Swivels!

All are factory new, factory packed, factory guaranteed—absolutely first quality 1961 Model. 12 gauge, 3-shot (2-shot magazine). Swivels on one-piece walnut stock with all-weather finish. Factory mounted soft molded rubber recoil pad. 28" barrel, full choke, 40" overall. Std. Wt.—8 1/2 lbs.

C20-T107. Pay \$1.00 down, balance \$1.51 a week, or . . . \$29.88

U.S. M1 .30 CALIBER CARBINE—15 SHOT

Semi-automatic

The Rifle Every G.I. Wants! Buy Now!

The only U. S. Military small arms made with the lines and weight of a modern sporter. Weighs 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!

C20-T49. Pay \$1.00 down, balance \$4.19 a week, or . . . \$79.95

C20-T50. Sling with oiler \$2.00; . . . F20-T51. Piston Nut Wrench \$1.00; . . . F20-T52. 15-shot Magazine, 3 for \$1.00; . . . F20-T53. Flash Hider \$3.95; . . . E20-T54. .30 cal. Military Ammo. \$7.50 per 100 rds.; . . . E20-T55. Hunting Ammo \$5.00 per 30 rds.; . . . F20-T56. 30-shot Magazine \$2.95; . . . F20-T58. Muzzle Brake \$3.95; . . . F20-T59. 5-shot Magazine \$2.50. (Minimum Order \$5.00).

Note: Orders with Ammo Shipped Express Collect.

30/06 AUTO. U.S. M-1 GARAND RIFLE—LAST CALL!

NRA Very Good Condition! Made in world famous Springfield Arsenal, as issued. 30/06 caliber, 8-shot, 24" barrel, 42" overall. All milled parts. Adjustable sight. Pay \$1.00 down, \$4.12 a week for 22 weeks.

C20-T25-Only \$79.95

C20-T26-Garand in specially selected condition. \$89.95

C20-T27—Military Ammo, per 100 rounds. \$6.00

BARRELED FN ACTIONS! NEW!

Super value! Brand new, first quality, 1962 models. FN "Supreme 400" Action. 22" barrel, 18" overall, milled trigger guards, safe safety, hooded ramp front sight. Drilled and tapped for scope mounts. 22" medium weight barrel. Pay only \$1.00 down, \$3.60 a week. State choice of 30/06, .270 or .243.

C20-T93-Only \$69.95

C20-T94-As above in .264 caliber. Only. \$74.95

DELUXE FINISHED STOCKS for barreled FN actions. American Walnut, Monte-Carlo style with cheekpiece. Hand checkered pistol grip and forend. Rubber recoil pad, quick detachable swivels. Completely finished—requires only minor fitting. Pay only \$1.00 down.

B20-T105 \$22.88

MSI MAUSER MANNLICHER CARBINE Cal. 7.65MM

Trim, fast handling little carbine in Very Good or better condition. All milled parts with matching numbers. 20" barrel, open sight, turned down bolt. 5-shot magazine, 8 lbs.

B20-T691. Pay only \$1.00 Down, \$1.25 a week for 22 \$24.95

Weeks, or . . .

B20-T692. 7.65 (.30) Mauser Ammo, per 100 rounds. \$6.00

LATE ISSUE! B.5 ITALIAN CARBINE

Only 36" overall, weighs only 5 1/2-lbs. shoots only slight use. Light on fast fired and hand spaced, ready for shooting. Turned down bolt, thumb safety, 6-shot, clip fed. Rear sight adjustable for elevation. Fast loading and fast firing.

C20-T749. Specially Priced at Only \$11.88

C20-T750. Carbine with Brand New Good Quality 4x Scope—3/4" diameter, as illustrated, \$19.95

E20-T751. 6.5 mm Italian military ammo with free 6-shot clip, 108 rds. \$7.50

CASH or CREDIT . . . SAVE at KLEIN'S!

BRAND NEW! FIRST QUALITY! 30-30 or .35 Rem.



THESE MARLINS ABSOLUTELY BRAND NEW, factory packed latest 1962 models with full factory mounted swivels! . . . a factory mounted recoil pad . . . and a fine sling!

Select oiled Marlin warranty. Famous Marlin fast short throw lever action. Tubular magazine holds 7 shots. Open rear sight, receiver mounted and tapper for adapter mount (furnished) for tip-off scope bases. 20" barrel, 38 1/2" overall, 7 lbs. Included FREE! factory fitted recoil pad, sling swivels and oiled leather sling with brass fittings. State choice of 30/30 or .35 Remington caliber.

C20-T71. Certified \$69.95 Mfr's List. Pay only \$1.00 down, balance \$3.60 a week for 22 weeks, or . . . \$69.88

MARLIN 336C WITH 4X SCOPE—Mounted. Ready to shoot! Well known, fine quality 1" diameter 4X Scope with hard coated magnesium fluoride lenses, click stops for windage and elevation adjustments. Tip-off mount for quick, simple scope removal. Scope is nitrogen filled to prevent fogging. Leather lens caps included.

C20-T72. 30-30, 4X SCOPE, MOUNTED. RECOIL PAD, CARRYING STRAP, SWIVELS. Compare at \$139.70 elsewhere! \$94.88

NEW! RUGER 44 MAGNUM RIFLE

FREE CREDIT!

Ruger semi-automatic .44 Magnum. Weighs only 8 3/4 lbs., 18 1/2" barrel, 5-shot tubular magazine, side ejection, open sights! Low smooth receiver perfect for scope mounting! Oil finished Walnut stock.

Order B20-T19. PAY ONLY \$1.00 DOWN, \$4.86 A WEEK FOR 22 WEEKS, \$108.00 Ppd.

PRICE REDUCED!—FRONTIER SIX-SHOOTER 22 or .22 MAGNUM

Exact super-accurate modern shooting reproduction of the famous 1873 Single Action Frontier Six-Shooter most prized by the men of the old West. Made by a famed German gunmaker in the same size and weight of the original models. Excellent for hunting, plinking, home protection, fast draw. Blue steel finish. 40 oz. weight, 5 1/2" brl. Brand new! Shoots .22 short or long rifle.

C20-T60. Pay only \$1.00 down, balance \$3.42 a week, or . . . \$39.95

C20-T61. Six shooter in .22 Magnum. \$39.95 ppd.

NEW! RUGER BEARCAT REDUCED!

PLUS FREE CREDIT!

The "Becat" is a true handgun to standards of precision and quality that will fascinate the man who understands fine firearms. The "Becat" possesses a grip which is comfortable and secure even in a large hand. The clear sights make accurate shooting easy for its size. . . . makes accurate shooting easy. . . . 22 cal. Long Rifle, long or short, high velocity or regular. Six shots. Heat treated engraved steel cylinder with recessed chambers, 4" barrel, 17 oz. 8 1/2" overall.

C20-T64. Shipped prepaid. Pay only \$1.00 down, \$1.75 a week for 22 weeks, or . . . \$39.50

FRONTIER DERRINGERS

FLASH! 38 Sp. Reduced from \$39.95 to \$27.50!

The "with his" is an exact copy of original Remington 2-shot Derringer. Quality made in Germany with twin floating firing pins. Best German made! Pay \$1.00 down.

E20-T10. 22 Blued . . . \$16.95

E20-T11. 22 Chromed . . . \$19.95

E20-T12. 22 Magnum, Blued . . . \$21.95

E20-T13. 22 Magnum, Chromed \$24.95

E20-T14. 38 Special, Chromed \$27.50

.38 & .45 WEBLEYS—While They Last!

Holster Free!

Famed British Pilots' and Officers' Revolvers. Rugged and dependable. Double action. 6-shot, auto ejection. Good condition inside and out. 6 half-moon clips furnished with .45 ACP caliber.

E20-T90-38 S & W Cal. \$16.95

E20-T95—.45 ACP Cal., 6" Brl., Only. \$16.95

Add \$3.00 for special selection, if desired.

M1917—COLT .45

U. S. Government M1917 Service Revolver. .45 ACP caliber—8 half-moon clips included. 5 1/2" barrel. Blued finish. Good condition inside and out. Easily worth \$50. Limited quantity. Pay \$1.00 down, \$1.25 a week.

E20-T15-Only \$24.95

As illustrated. Colt .45 with 2 1/2" snub nose barrel. E20-T17. . . . \$29.95

38 S & W ENFIELD No. 2, Holster Free!

One of the fastest loading, firing and ejecting revolvers ever made and certainly one of the safest. Double action. 38 S & W. 5-shot. 5 1/2" overall. Hinged frame, break-open action, fixed sights, hard rubber grips. Good condition outside. Perfect mechanically.

E20-T39. Enfield No. 2, converted to 2 1/2" snub-nose (Holster not included). \$19.88

Add \$3.00 for special selection, if desired.

HANDGUN AMMO—per 50 rds.:

.38 S & W (E20-T467). . . . \$4.30;

.45 ACP (E20-T468). . . . \$2.50;

9mm Military (E20-T469). . . . \$2.50.

DELUXE MARLIN 336C!



With RECOIL PAD . . . SLING SWIVELS . . . SLING! . . . EXTRAS FREE!

THIS IS FOR YOU: For every man who knows a said \$25.07 savings on the most wanted lever action rifle model . . . and you not only get big savings but given with every rifle are . . . a factory mounted recoil pad . . . and a fine sling!

factory mounted swivels! . . . a factory mounted recoil pad . . . and a fine sling!

These Marlin absolutely brand new, factory packed latest 1962 models with full factory mounted swivels! . . . a factory mounted recoil pad . . . and a fine sling!

Open rear sight, receiver mounted and tapper for adapter mount (furnished) for tip-off scope bases. 20" barrel, 38 1/2" overall, 7 lbs. Included FREE! factory fitted recoil pad, sling swivels and oiled leather sling with brass fittings. State choice of 30/30 or .35 Remington caliber.

C20-T71. Certified \$69.95 Mfr's List. Pay only \$1.00 down, balance \$3.60 a week for 22 weeks, or . . . \$69.88

MARLIN 336C WITH 4X SCOPE—Mounted. Ready to shoot! Well known, fine quality 1" diameter 4X Scope with hard coated magnesium fluoride lenses, click stops for windage and elevation adjustments. Tip-off mount for quick, simple scope removal. Scope is nitrogen filled to prevent fogging. Leather lens caps included.

C20-T72. 30-30, 4X SCOPE, MOUNTED. RECOIL PAD, CARRYING STRAP, SWIVELS. Compare at \$139.70 elsewhere! \$94.88

SALE! NEW .22 REVOLVER! PRICE SHARPLY REDUCED!

Made for Firearms International by famous German firm of Burgmuller & Son. Low price due only to minor modifications on forthcoming model. Fires .22 Short, Long or L. R. cartridges. 8-shot swingout cylinder, all cartridges eject simultaneously. Single or double action. Square notched rear sight, serrated front sight. Hand fitting one-piece checkered composition grips. Blued finish. 2", 4" or 6" barrel, state choice.

E20-T434. Pay \$1.00 Down, Balance \$1.31 a week for 22 weeks, or . . . \$29.95



SAVE! Marlin Golden 39A . . . 3/4" or 1" Scope and Mount . . . Pile Lined Gun Case . . . Cleaning Kit . . . Carrying Strap

Save now on the most wanted lever action .22 rifle ever made. Complete with essential accessories! Marlin Golden 39A is fast handling, has proven dependability. Microgroove 24" barrel gives greatest accuracy, longer barrel life. Tubular magazine holds 26 Short, 21 Long, or 19 Long Rifle Cartridges. Choice American Walnut Stock with swivels, gold plated trigger, open sights.

Scopes are finest quality, well known brand with hard coated magnesium fluoror lens, click stops for windage and elevation adjustments. Tip-off mount for quick, simple scope removal. Scope with 1" diameter tube is Nitrogen filled to prevent fogging, provides full 20' field view at 100 yds. Leather lens caps included.

Needed accessories include leather-like deluxe Case with full zipper opening, deep pile lining, molded tip . . . complete Cleaning Kit in steel box . . . saddle leather Carrying Strap with brass fittings.

Marlin Golden 39A with 3/4" diameter Scope, Mounts and Accessories, ready to shoot. Compare with \$106.90 rifles elsewhere! \$80.88

C20-T754. Pay \$1.00 Down, \$4.18 a week for 22 weeks, or . . . \$80.88

Marlin Golden 39A with 1" diameter Scope, Mounts and Accessories (illustrated), ready to shoot. Compare with \$136.70 elsewhere! \$98.88

C20-T755. Pay \$1.00 Down, \$4.12 a week for 22 weeks, or . . . \$98.88

Marlin Golden 39A with 1" diameter Scope and Mounts (Kit and Gun Case not included), ready to shoot. Compare with \$126.50 elsewhere! \$88.88

C20-T756. Pay \$1.00 Down, \$4.59 a week for 22 weeks, or . . . \$88.88

C20-T759FT. Rifle only. Pay \$1.00 Down, \$3.59 a week, or . . . \$79.95

MAIL TODAY! IMMEDIATE DELIVERY!

Klein's Sporting Goods

Our 77th Year
KLEIN'S—Dept. 96
227 W. Washington St.
Chicago 6, Illinois

RUSH ITEM NUMBERS:

ENCLOSED IS \$ ☐ Check ☐ Money Order

MY NAME

ADDRESS

☐ **NEW CREDIT CUSTOMERS:** To speed your order, send \$1.00 (or more) Down Payment, name & address of your employer and names and addresses of 2 or more companies with whom you have (or have had) credit accounts. Also give age, occupation, no. of dependents, date present job began, and your weekly salary. This information is Required Only On First Credit Order.

☐ **NOTICE:** Credit orders from this ad will be billed monthly for your convenience. No credit carrying charge will be added if account is paid in full within 30 days.

☐ **ESTABLISHED KLEIN'S CREDIT CUSTOMERS:** Send \$1.00 or more Down Payment. Your new purchase will be shipped at once and added to your account.

☐ **CASH CUSTOMERS:** Send check or money order in full. (See below regarding POSTAGE.)

☐ **C.O.D. CUSTOMERS:** Include at least 10% deposit with order.

POSTAGE AND HANDLING: If item number begins with "A", send 25c for Postage and Handling. With "B" send \$1.00. With "C" send \$1.50. With "D" send nothing—we pay postage. With "E" send nothing—shipment is made Express, charges collect. If you order more than one item, send Postage for only the one item carrying highest amount of Postage.

HANDGUN PURCHASERS: Please send signed statement stating that you are 21 or over, not an alien, have not been convicted of a crime, not under indictment, not a fugitive or drug addict. Also send permit if your city or state requires.

100% MONEY BACK GUARANTEE!



If You Like to Hunt or Shoot...

Enjoy Year Around Shooting



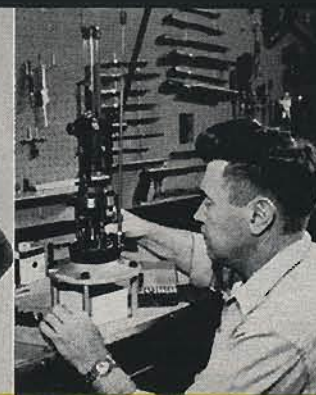
SHOTGUN SHOOTING



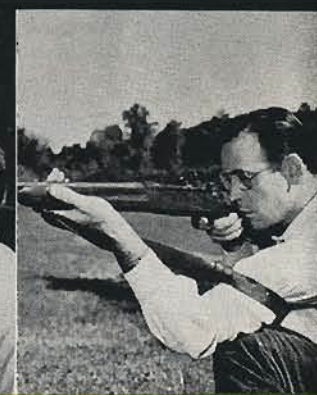
AMATEUR GUNSMITHING



PISTOL SHOOTING



RELOADING AMMUNITION



RIFLE SHOOTING

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

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

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

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

**BIG GAME AND
SMALL GAME
HUNTING**

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

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

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

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

You Can Be Proud to Belong

450,000 HUNTERS AND SHOOTERS—the members of NRA—invite you to join the National Rifle Association and enjoy the many benefits reserved for members. NRA members have a common bond of interest in firearms and their proper use. You can be proud to belong, because NRA is one of America's oldest and best-known associations. Through the years, NRA's membership rolls have carried the names of sportsmen from every walk of life, including five presidents of the United States. In addition to serving its members, the National Rifle Association serves the Nation. For example, millions of boys and girls have been taught the safe and proper handling of firearms. Another public Safety project is NRA's Nationwide Hunter Safety Course with over one million graduates.

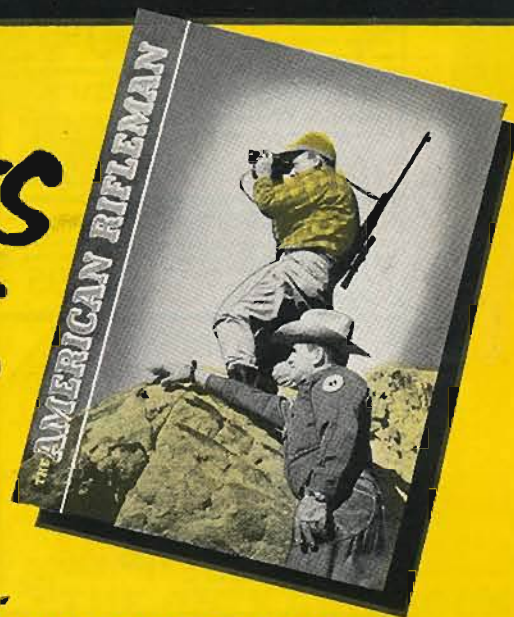


You Belong

in the National Rifle Association

Fun as an N.R.A. MEMBER!!!

YOURS—ALL THESE MEMBERSHIP BENEFITS FOR ONLY \$5



- ▶ **HUNTING SERVICE.** NRA Hunter Bulletins and *American Rifleman* articles cover game availability, shooting preserves, gun laws and game laws. NRA Hunter Awards are issued for deer, antelope, elk and big horn sheep. Marksmanship improvement programs are conducted the year around by NRA affiliated clubs, including a nationwide "Sighting-in-Day" as a public service to hunters.
- ▶ **FIREARMS INFORMATION SERVICE.** Qualified men give practical answers to queries related to guns and shooting. New gun owners are welcome to write, as are veteran shooters. Plans for shooting ranges are also available to members and member clubs.
- ▶ **RECREATIONAL SHOOTING SERVICE.** Hometown matches and leagues are provided for NRA members using .22 caliber and high power rifles and all calibers of pistols. Competition continues through state, national and international tournaments. A National Classification system insures equal opportunities for winning awards. Qualification courses, fun matches, plinking courses and informal shooting games are provided the year around.
- ▶ **GOVERNMENT EQUIPMENT SALES.** As available, NRA members are eligible to purchase from the Army such firearms as Springfield rifles, M1 (Garand) rifles and .45 caliber pistols at surplus or cost-to-government prices. Ammunition and military targets are also available for sale to NRA members by the Army.
- ▶ **FIREARMS LEGISLATIVE SERVICE.** NRA members receive monthly gun legislation information through the *American Rifleman*. Bills requiring emergency action are reported to members concerned through special bulletins.

THIS FAMOUS MAGAZINE,

THE AMERICAN RIFLEMAN

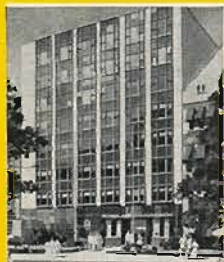
The world of guns and shooting is thoroughly covered in NRA's magazine—*The American Rifleman*. Readers keep abreast of shooting and hunting activities, relive firearms history, learn the practical use of guns—how to buy, shoot, and care for them—and where and how to hunt for maximum enjoyment. Ammunition, reloading equipment and methods, amateur gunsmithing, shooting programs and gun legislation are subjects fully presented on a continuing basis.

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

Preserve Your Right to Own Guns

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

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



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

... These Popular NRA Services, too!

- Low cost gun and personal accident insurance.
- Use of NRA's Book Service which makes available reasonably priced books, manuals and other items of general interest to gun enthusiasts.
- Opportunity to qualify as an NRA Certified Rifle, Pistol or Hunter-Safety Instructor.
- Free home range plans and other useful printed materials on specialized subjects.
- Introductions to NRA-affiliated clubs in your area—or help in organizing your own club.
- Invitations to NRA's Annual Meetings, Banquets, Firearms Exhibits and National Matches.
- Complete set of credentials, including your own membership card and a decal emblem for your car.

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(Continued from page 10)

and firing for qualification with such a weapon yearly or every other year. This would, in my opinion, be a great deterrent to any aggressor, and certainly wouldn't be any more expensive than destroying them.

Thank you for this article and I want you to know that I am also writing my congressman.

Courtney Mainord
Anderson, Indiana

Boy Wants Help

I am just writing to say just how much I enjoy your magazine. In the December issue the article, "The Young Guns," was very interesting, and I enjoyed it. I am sixteen and I am very interested in guns, but I do not as yet have one, although I would like one. Could you please tell me where I could go to learn how to shoot and where I can find a club in my neighborhood. Keep up the good work.

Stephen Rubin
Brooklyn, N.Y.

Write the National Rifle Association, 1600 Rhode Island Ave., Washington 6, D.C., for information regarding clubs and instruction courses available near you.—Editors.

Advice From Abroad

As a resident in England I have a gun collection which complies with the 1937 Firearms Act, which states that all pistols, rifles, and guns with a barrel under 20 inches have to be registered with the local police and with the Home Office. In view of your anti-gun law crusade I would like to make the following points:

1. The law depends completely on the people who enforce it. If the police, the Justice of the Peace, or the Sheriff, etc. is empowered to say yes or no about gun ownership, then he must have rules by which he can judge a specific problem. For example, he must be clear on what is an antique. This can be construed to be anything that looks old, that fires a separate ball and powder, that is not in current production, or made before any particular date.

2. That the law provides some way by which arms may be legalized.

3. That a collector's wish to collect sub-machine guns, anti-tank guns, or German wheellocks is a perfectly genuine one. In this country, no person is allowed to own any weapon which will fire bursts. In yours, a considerable tax is levied.

4. That as with both Federal and State rulings, in which there may be large and complicated differences, there should be scope for local adjustment.

5. That a club should be able to investigate a man's integrity and saneness so that his membership of that club be a bond to the powers that be that the member is entitled and capable to own a gun.

Your English readers would appreciate, I'm sure, an honest article on your acceptance of the M14 instead of the F.N. This definitely seems to this nation which gave up our own perfect rifle, the E.M. 2, a very selfish and narrow minded top-brass decision. I expect you feel the same about us on this same point, but I would like to see a comparative list of results on the three rifles published in your magazine.

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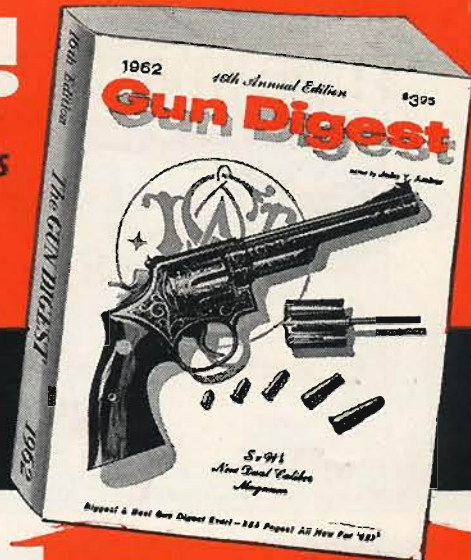
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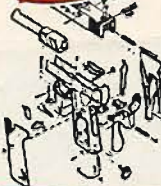
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THE NRA STORY

By C. RICHARD ROGERS

THE NATIONAL Rifle Association of America is the shootin'est, most heavily armed civilian organization in the world, yet it has never "fired a shot in anger." Its objective is peacetime sport, yet it has helped select the arms and train the shooters for many wars. It is 91 years old, yet its eyes are more than ever before on youth, and its vigor and virility are at an all-time peak.

Ninety-one years ago, with the bloody Civil War still vivid in their memories, a group of officers in the New York State National Guard sponsored "an organization to promote and encourage rifle shooting on a scientific basis." On November 24, 1871, the Secretary of the State of New York approved the charter of the National Rifle Association and promised financial support toward the purchase and



Outgrowing old home at right, NRA now fills bright modern new office building next door.

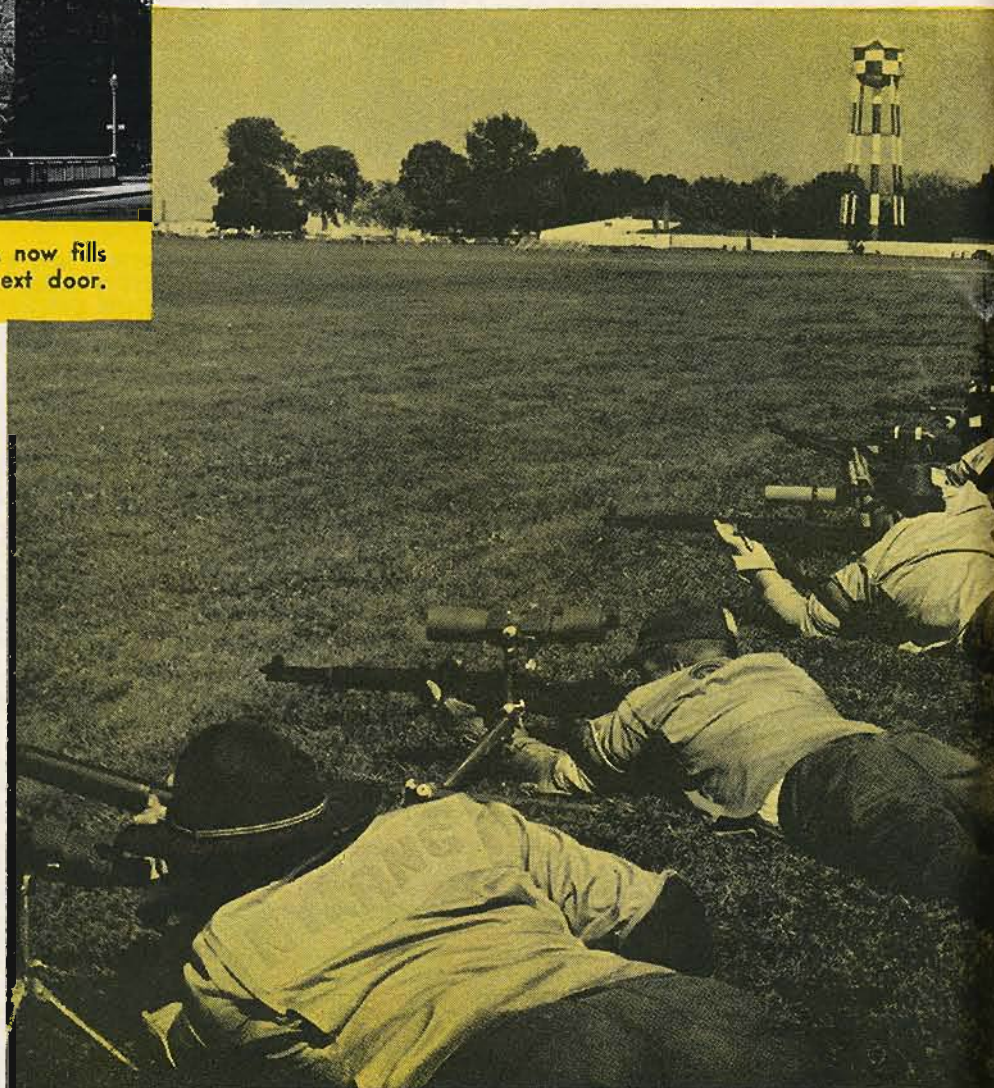


John M. Schooley
President



Bartlett Rummel
Vice-president

Checkerboard tower at .30 caliber range is landmark of Camp Perry, the annual shooting fest of most dedicated U. S. target shooters.



SMALLEST ITEM AND BIGGEST BARGAIN ON UNCLE SAM'S TAX BUDGET IS THE NRA PROGRAM OF FIREARMS TRAINING

operation of a shooting range. The result was Creedmoor, the first NRA range, formally opened June 21, 1873.

The mere opening of a rifle range got little publicity, but the next year brought an event which caught the imagination of America. It began with a challenge from the Irish Rifle Team, winners of the Elcho Shield and the long range championship of Great Britain in 1873, for a match against any eight Americans, seven shots per man at each range (800, 900, and 1000 yards) for a stake of \$500 a side.

No member of the Amateur Rifle Club, one of the first civilian clubs organized under NRA, had ever fired beyond 600 yards; but some of the members were Irishmen, and they accepted the challenge. The Remington Arms Company and the Sharps Rifle Company each agreed to con-



NRA programs include teaching youngsters the right way to handle a gun on the range and in the field, copious amounts of literature for hunters, plinkers, target shooters, and gun tinkerers. At Perry, the Small Arms Firing Schools are always well attended.

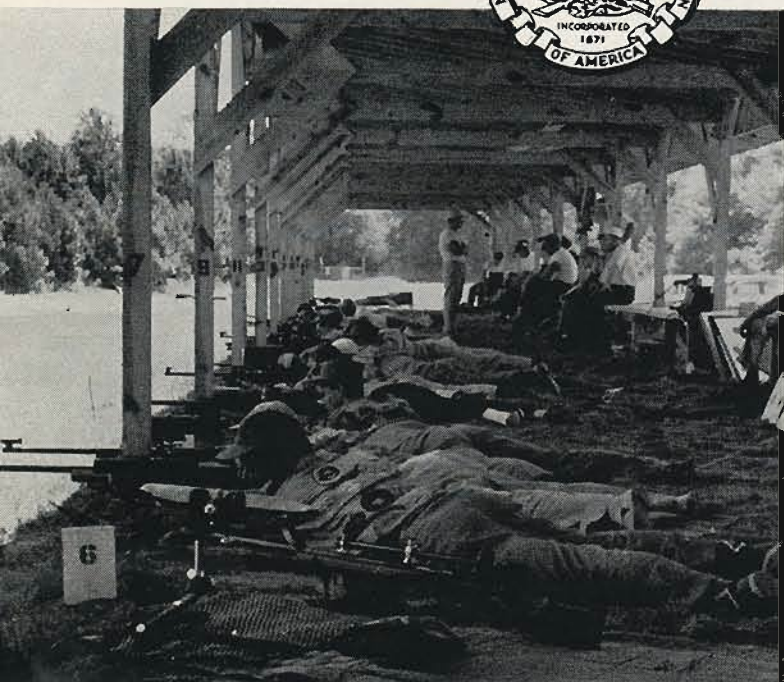


Franklin L. Orth Executive Vice President, Louis F. Lucas Executive Director, Frank C. Daniel Secretary, guide the activities of almost 200 NRA staffers and employees.



Handgun competitions are ruled, supervised by NRA's regulations, and shooters comply with identical rules.

Real precision shooting contests are being held by smallbore X-ring clan all over country. Scores rank shooters by classification.



tribute half of the \$500 stake, and guaranteed to provide an American breechloading rifle which would equal or surpass the Irish muzzle-loaders in accuracy.

Newspapers gave the match a great build-up. Fired September 26, scores were telegraphed to New York and posted on public bulletin boards. Five thousand people were jammed behind the firing point when the American anchor man, Colonel John Bodine, squeezed off his last shot. Colonel Bodine's trigger hand was dripping blood from a cut incurred at lunch from broken glass. And this final shot was the match. A hit on the target would give America a one-point victory. A better score would increase the margin.

Endless time seemed to elapse between the roar of the big black-powder rifle and the thud of the bullet against the cast-iron target. It was a center hit—a five. Final score: America 935, Ireland 931. And target shooting as an organized sport was on its way.

During the next 20 years, the NRA developed new targets and secured the use of several new ranges, notably Walnut Hill in Massachusetts, and Seagirt in New Jersey. The magazine, "The Rifle," was first published in 1885 and its name changed to "Shooting and Fishing" three years later. Neither were directly connected with NRA.

In 1901, by Act of Congress, the Secretary of War was directed to establish the National Board for the Promotion of Rifle Practice. This was endorsement, on the highest federal level, of the principals back of the NRA. This recognition by Congress has been highly significant during the more modern history of the Association.

The first National Matches were held at Seagirt in September, 1903, with 15 team entries. Compare this with the more than 7,000 shooters that compete at Camp Perry today.

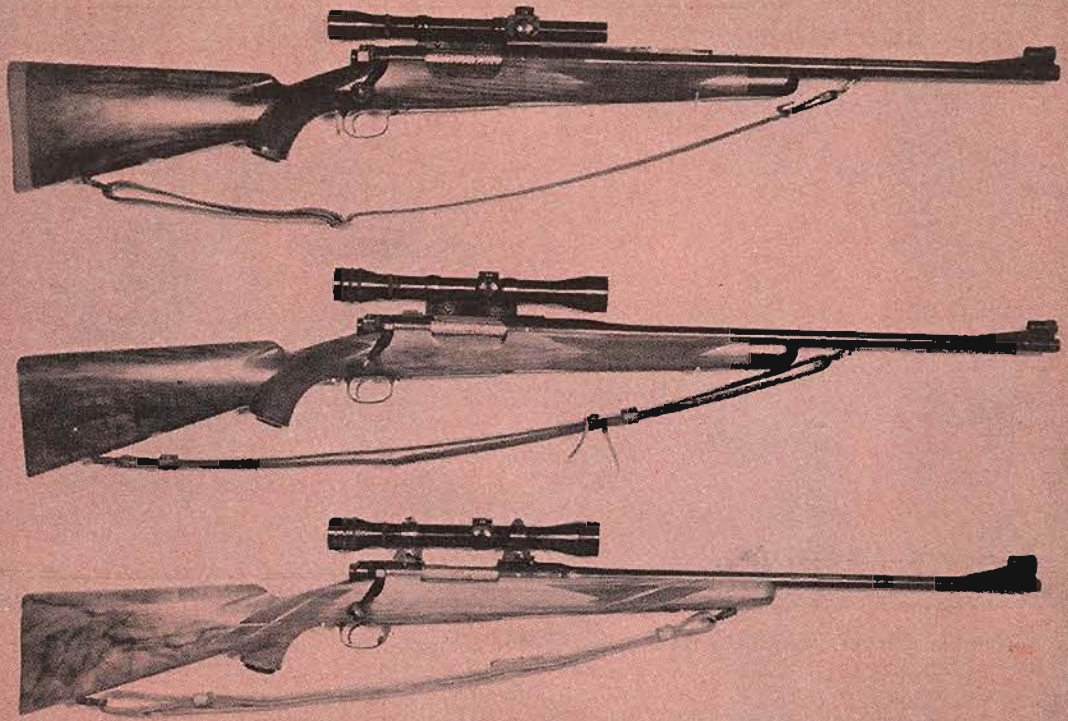
1904 was a memorable year. President Teddy Roosevelt became an NRA Life Member. So did William Howard Taft, then Governor of Ohio. Some attention began to be paid to the "pip squeak" .22 caliber as a low cost but accurate training arm. And younger shooters were entering the game. On May 6, 1905, the first NRA Intercollegiate Championship had teams from Princeton, Harvard, Yale, and Pennsylvania. They finished in that order. And the Public Schools Athletic League of New York City, as well as High School cadets of Washington, D. C., were competing in rifle matches.

In 1906, General Drain, NRA Vice President, bought "Shooting and Fishing" and changed its name to "Arms and the Man." In 1907, the National Matches moved to Camp Perry, Ohio, long to be the Mecca of American shooters; and the NRA Headquarters moved to Washington, D. C., in the Spring of 1908.

Then came World War I. Organized civilian shooting was not yet able to make an outstanding contribution, but combat emphasized again the urgent need for more and better marksmanship training. The years between World War I and World War II were years of growth, both in size and importance and in activities. The National Matches became important in improving service arms and ammunition. NRA members were receiving surplus arms and, through their purchases, turning more money back to the Treasury of the United States than was being appropriated to encourage American marksmanship. In June, 1923, the official NRA journal became "The American Rifleman."

Smallbore rifle shooting, by virtue of its relatively low cost and fine accuracy, was (Continued on page 45)

AN AFRICAN BATTERY



M70 in .458 Win. Magnum (top) is stocked for the heavy recoil with more drop at comb than at heel. G&H M70 in .30 Belted Newton with 22 inch barrel. M70 Brownell in .270 Winchester weighs 8 pounds.

WHY CLING TO RULES MADE FOR GUNS NOW AS DATED AS FLINTLOCKS?

By R. F. CHATFIELD-TAYLOR

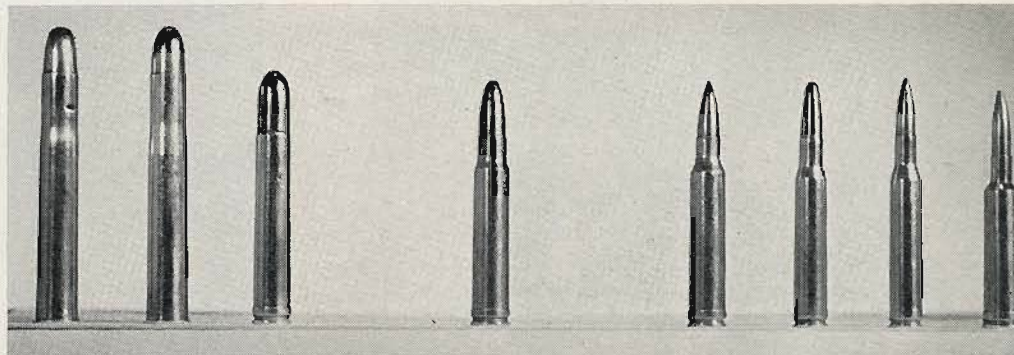
VOLUMES have been written and millions of words exchanged on the subject of the African battery. In fact, it is not a very difficult choice—if one elects to simplify it. On the other hand, if one chooses to explore all possible details and haggle over relatively unimportant points, it can become a topic of unending controversy and, to many, pleasurable discussion. Personally, I can play it either way.

The African battery can very well consist of four firearms—and I mean for everything from chipmunks to elephant. Where you go from there depends upon your interest in firearms and the size of your pocketbook. What you *need*, however, is a heavy, large-bore on the order of the .458 Winchester Magnum; a flat shooting rifle of good accuracy with upwards of 2750 ft. lbs. of muzzle energy; a .22 rimfire; and a two-shot shotgun of 12, 16, or 20 gauge. I say "two shot" because in

some countries, among them Kenya, shotguns of greater capacity are banned. For like reasons, autoloading rifles must be avoided if you would use them everywhere. There are some places where they are strictly verboten.

The unfortunate truth remains, however, that no rifle cartridge which can

be fired from the shoulder is of sufficient power to eliminate the necessity of good bullet placement, all game considered. In the past few years there has been a mad rush toward magnums. The magic word: Magnum. The panacea of all ills, the short-cut to all hunting woes, the (*Continued on page 56*)



Cartridges from left to right: .470 Nitro Express, .500-.465 Nitro Express, .458 Winchester Magnum, .375 Belted Newton, .30 Belted Newton, the .30-06, the .270 Winchester, and the .264 Durham Magnum also known as 6.5mm Mag.



British Columbia grizzly is awesome trophy that is worth much hard work and sweat. Note the length of the claws.



Black bear was taken by author with .270, 160 grain Barnes bullet. Jack Sampson, outstanding bear hunter, with rugs, ivory inlaid bear gun.

HONEY UP



ALMOST EVERYONE knows that bears and honey are nearly as inseparable as ham 'n eggs. But the trouble lies in the fact that few hunters know how to put that truism to practical use.

The bear is one of nature's slipperiest and most unpredictable critters, and despite his goodly size and high visibility, he is only infrequently, and usually accidentally, encountered and shot. He has a choke-bored nose, superb hearing, and a tendency to lay out the daylight hours in spots where it would take a bulldozer to roust him out.

So—I'm going to give you humbling, stumbling bear hunters a break. I'm going to let you in on a secret which, since it is known to all honey-loving bears and a goodly number of bear-hunting sportsmen, is really no secret at all. The reason you haven't heard it before is that the genuine bear hunters are a clannish breed and seldom get confidential with just any whiskered human they meet.

Bears come out of hibernation in spring, while herculean patches of snow still lie on the ground, and they're on the food-gaunt side. Their stomachs are shrunk, their long

winter-grown hair itches, and they're eager to shed off a blanket of fat for which they've no further need.

Spring bears aren't choosy about their grub, but it takes them some weeks to get into full feeding gear. Actually, just-emerging spring bears can't be finicky about their food. They take on the merest dabs at first, to get their digestive systems into gear again, and then gradually increase it from day to day. Mainly they prefer a "salad" diet of juicy and succulent spring greens—glacier lilies, skunk cabbage, and the like—and graze on these like cows on new spring grass.

By the amount and duration of such grazing, you can form an excellent estimate of the quality of a spring bear's pelt. If you are on a bear's trail and see that he sails greedily into such grazing and keeps it up for a substantial time, he has been out of hibernation long enough so his pelt is likely to be badly rubbed. But the bear who merely sniffs around and crops a mouthful only here and there is a good bet to be freshly awake and packing an unblemished pelt.

Generations of bears have learned that such spring salads do three things for them: first, they start the lubricating digestive juices flowing in preparation for the huge intake of chow during the warm months; second, they help melt off the blanket of fat in which they slept during the winter; and third, it starts their fur shedding to make room for a brand new fur coat. With the coming of warm weather and lengthening days, bears try to rid themselves of extra fat and fur as rapidly as possible.

It's only after their stomachs have become fully extended again that they commence to eat heartily. Though they may wistfully sniff around some dead carcass—either winter-kill or bait set out by hunters—they're strictly on a salad diet. Only after they've been out of hibernation for a full fortnight will they come anywhere near matching—in volume and variety—their autumn intake of grub. And, at the same time, the rugs they then furnish begin to show extensive shedding until, a fortnight or so later, they begin to emerge in the short-hair and under-fur coats they feature throughout the summer.

Two spring bears that I shot in British Columbia, within two days of each other, beautifully (*Continued on page 54*)

that **BEAR**

**YOU THINK BEAR HUNTING IS ALL
LUCK? THEN READ THIS TIP-OFF OF A
BEAR HUNTER'S TRADE SECRETS**

By BERT POPOWSKI



The Sampson's display a clothesline full of choice bear rugs in their home in Alliance, Nebraska. Jack does not hunt hoofed big game, has made bears his specialty. A superb shot, he uses ornamented .30-06 rifle, factory ammo to stop 'em.

ANIMALS WERE FRIENDS, THEIR TRACKS AN OPEN
BOOK TO THIS MAN WHO BECAME A LEGEND

BEN LILLY

LAST OF THE MOUNTAIN MEN



Author, at West Fork of Gila River in 1926, knew Ben Lilly at his prime.

By WILLIAM BRENT

BILLY Soule and I looked on as Ben Lilly got down on one knee to examine the lion tracks in the crusted snow. His dogs, after sniffing the tracks, walked about, whining, anxious and eager to hit the trail. This took place on the West Fork of the Gila, in the Gila National Forest in southwestern New Mexico, a hunter's paradise.

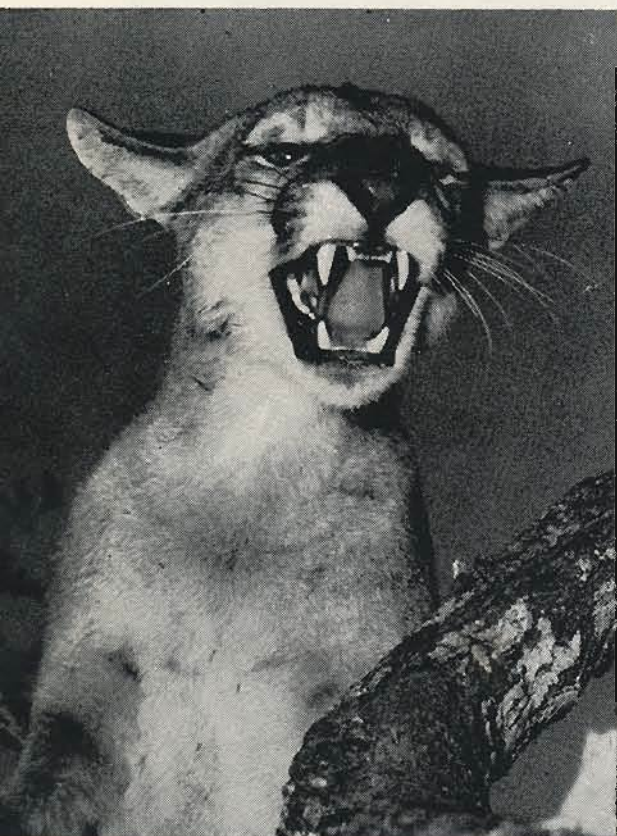
Ben Lilly looked carefully from one track to the other. Then he picked up a dark sliver of something, smelled it, tasted it, and then leaned down to smell both the front and hind footprints. Satisfied, he got to his feet and looked in the direction of White Creek, toward which the tracks were going.

"She crossed here about daylight this mornin'," he said. "A three-year-old female, carryin' cubs—two, I'd say."

With the skepticism of youth, I glanced at Billy Soule, older than I by at least 15 years. But he was nodding complete affirmation, like a student listening to the words of the master. And there was more to come.

"She made a deer kill some time yestiddy, or the day before," Ben Lilly continued. "Ate her fill this mornin', an' she's gone up into them roughs above White Creek to sleep an' hole up till she gets hungry again. That's where she lives." He glanced up at the pale November sun. "I'll be back an hour or so before dark. I'll have her." This last was said simply as a statement of fact.

He called his dogs about him, gave them their instructions as though he was talking to people. He spoke sharply to one, and the dog was off in a jump. Then Ben Lilly snapped a chain leash to the collar of a tired looking old spotted hound, looped the other end to his belt, and was off with that peculiar swinging gait of his, covering the ground in a steady pace.



Ben in mid-fifties posed for a rare photo with one of the countless lions he killed.





Ben Lilly, left, and Andrew J. Goforth were photographed in Sapillo during 1921. Rifle Ben holds is probably a Savage, caliber .250-3000, as this was one of his favorites for hunting. Guide dog is tied to Ben.

Billy and I mounted our horses and took off to bring in the big deer Billy had killed the day before. That's where we'd been headed early that morning when we first saw the fresh lion track. But I couldn't get Ben Lilly's performance out of my mind.

"Billy," I said, "is it possible that even Ben Lilly could read as much in a set of tracks as he told us? He put on quite a show."

Billy chuckled and threw me a wry look. "I think I'll let Mr. Lilly answer that question. You ask him when he comes in. He just might tell you—but I won't guarantee it."

I'd met the Soules, Billy and his wife Jimmie, in Silver

City the year before this, on one of their periodic trips to town from their little ranch on the Sapillo. Their place was only a short distance from Ben Lilly's headquarters, a cave above Sapillo Creek. The Soules, come big game season, always hunted, and this year they'd asked me to go along. We were on the West Fork, holed up at Jenks Cabin. The season was only a few days gone, but already we had our limits of deer and wild turkey, including the one that Billy had killed and hung up the day before, which Billy and I had started out to fetch when we came across the fresh lion track. Billy said, "Mr. Lilly would want to know about this," he said. "We'll ride up to the White Creek ranger station and (Continued on page 50)



This is a typical base camp in the unexplored region of Yucatan. Because of the weight, transporting movie film was most difficult in moving camp, but game was plentiful and a .22 automatic was never out of reach.

We Shoot To Eat!

FOUR-BARRELED OR PEEP-SIGHTED, GUNS

MUST BE PRACTICAL WHEN IT'S HIT OR GO HUNGRY!

By DANA and GINGER LAMB

JACK BARKER stroked "Old Betsy," his famous "four-barreled rifle," as we sat in the shade in front of his thatched hut on the shore of Chametla Bay on the west coast of Mexico. The sun beat down on the white sand before us, and farther on the blue waters of the lagoon twinkled to a light breeze. Our host was known and respected throughout the area for his prowess as a hunter, and the famous four-barreled rifle was his pride and joy. Naturally, we were talking guns.

"This here gun," Jack said affectionately, "I had made special in Germany. Look," he said as he opened the breech, "look at that precision workmanship. It's like a fine watch." He raised "Old Betsy" for our inspection. We marveled, as we always did, at the intricate mechanism and the mellow finish on the hand polished wood of the stock.

"Got me a gun that'll get me any kind of game I'm lookin' for." He pointed to



the muzzle. "This here top barrel is a .22. There, side by side, are a .410 and a 12 gauge; and below them is a .30-30."

We admired Jack's gun, as he naturally expected us to do every time he showed it to us. Then he said, "Now let's see what kind of guns you kids are totin' this time down to that unexplored Maya country."

I lifted the holster flap and exposed the breech of my .22 Hi-Standard Automatic. Jack cocked a bushy eyebrow at the gun and growled, "Now what in tarnation is that confounded gimmick you've got on that there pistol?"

"It's a peep sight," I said apologetically.

Jack's expressive grey eyebrows shot up as his steel blue eyes surveyed us quizzically. "I never thought to see a peep sight on a pistol!" He snorted.

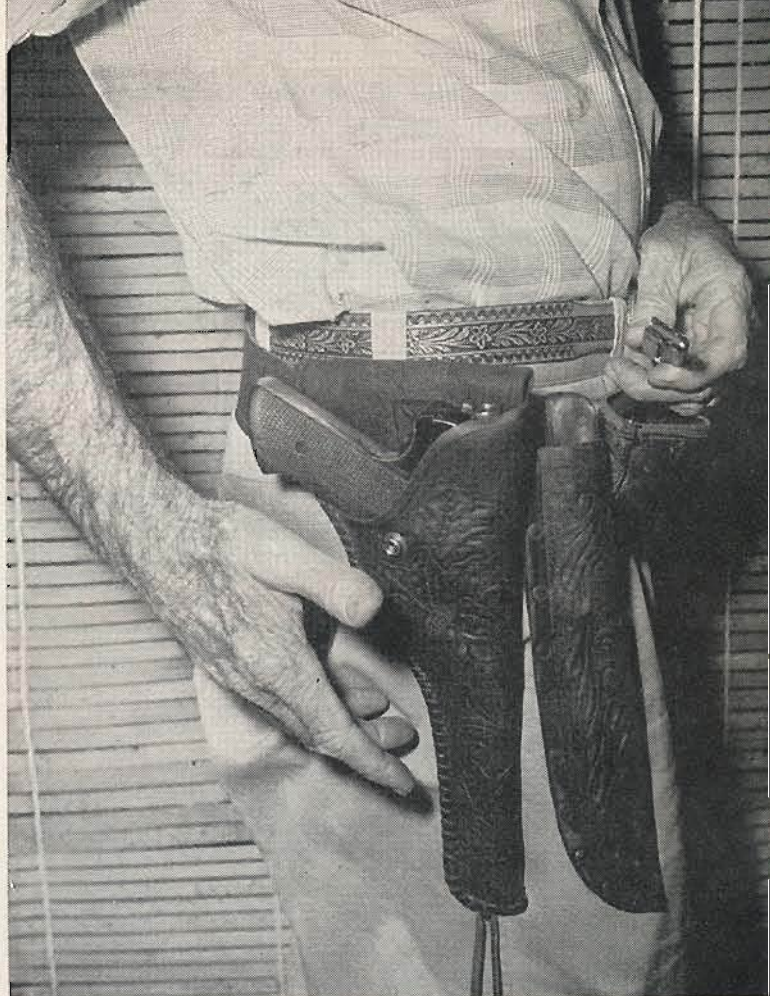
"Jack," I said, "you know darn well that when we pull the trigger, we want to eat—and besides that, these sights are not really our fault."

"Well, then," Jack said sourly, "who IS responsible? . . . No; hold it; I can see this is going to be quite a story. Let me go fire up the coffee pot."

As Jack carefully sat 'Betsy' down and started for the kitchen at the back of the thatched hut, my thoughts went back to our first trip—Ginger and I had made a 3 year trip from San Diego to Panama in a 16 foot canoe. That time, Ginger had carried a .22 automatic and I a 9 mm. Luger, using hollow-point ammunition. I remembered the first time I'd shot a rabbit with that Luger—and returned to camp with our supper—a few bits of fur! From then on, we had used the .22 on small game and reserved the Luger for the 'big stuff.'

Jack returned with steaming mugs of strong coffee. "Let's hear now, young fellow, about how you and Ginger and the peep sights got mixed up together."

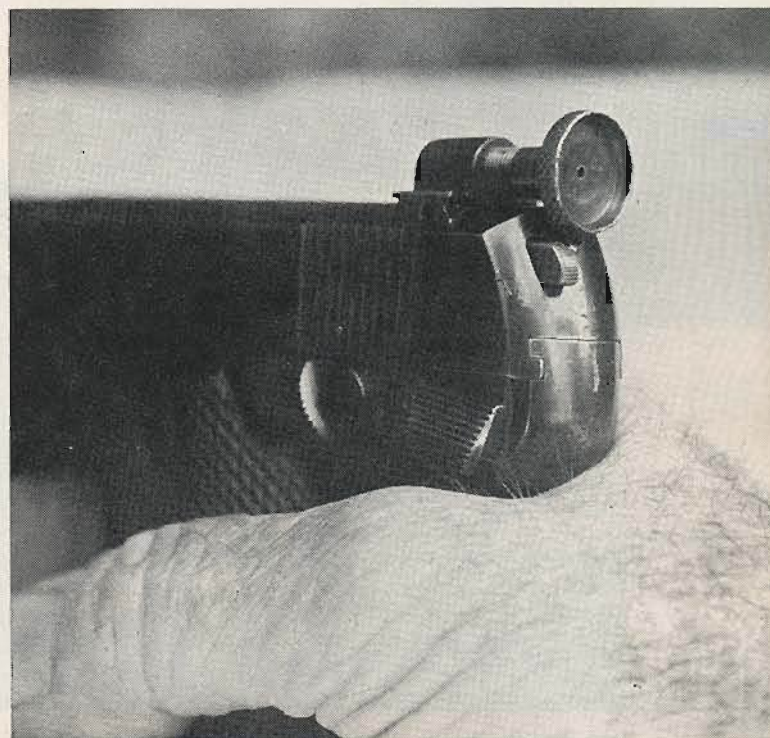
"It was this way," I began. "We were on lecture tour, showing one of our films. During our free time, we like to



When hunting, holster flap is tucked in for quick draw and ammo pouch is open for fast clip change.



Barrel is fitted into bony hollow of elbow, trigger guard pressed hard against the veins to cut off pulse.



Although somewhat unorthodox, peep-sighted automatic did well on game and greatly aided shooting.

browse the gun shops and sporting goods stores, looking for more efficient equipment for our next trip. Our trouble with the Luger on the canoe trip was that it was too heavy and bulky, and the ammo also heavy, hard to come by, and expensive."

Jack nodded. "It's not so much the size of the bullet or the velocity that counts; it's where the man behind the gun puts that bullet!"

I nodded. "That's why we gave up the idea of heavy hand guns, because every ounce counts when you're carrying cameras, film, food, and camping gear on your own back.

"Well, at one gun store in San Francisco, we had each selected a .22 Hi-Standard Automatic, mine with the 6 inch barrel, and Ginger's with the 4 inch. We were explaining to a slightly confused clerk that we were not too happy

with the sights. On our exploration trips, when we're living off the country, it's important to make that first shot count, as it often means the difference between an empty belly and enough food to keep us going."

"The clerk wanted to know why we didn't carry rifles and shotguns, and we explained about the weight problem. He had nothing constructive to offer about the sights, and so we took our guns and turned to leave. A kindly, white-haired gentleman confronted us, smiling. 'My name is King,' he said, 'I attended your lecture last night, and I think I can help you with your problem. Will you accompany me to my shop?' He seemed so friendly and sincere that we didn't hesitate to follow him out to a taxi. When the cab stopped, we looked up and saw a sign, 'King Gunsight Co.'"

Jack's expression changed. "By golly, this tale is gettin' interestin'. I had a King Sight put on Old Betsy here awhile back—but go ahead with your story."

After another sip of the sweet, black coffee, I went on. "In the big showroom it was easy to see that Mr. King loved guns—and gunsights. He showed them all to us, but nothing quite seemed to fill the bill. Finally he said I'll tell you what. Leave your guns with me and maybe I'll come up with an idea that will help you eat when you pull that trigger.' We took our new-found friend on faith, and left the guns there with him.

"After a two-week lecture run in the surrounding area, we went back to see Mr. King. He had fitted this small peep sight on the breech of each automatic." I slipped out the clip, checked the chamber, and handed the gun to Jack. "See how small that peephole is. The front sight is a thin ivory bead. Mr. King said that if this didn't solve our problem, he didn't know what would. He also honed the action to hair-trigger perfection.

"We were a bit skeptical when we parted company with Mr. King and headed out to the police target range for our first try with the pistols. But we set up some standard targets and each of us fired a clip to get a pattern. From where we stood, it looked as though neither of us had even hit the target! But as we approached the targets, Ginger began to hurry. I wondered what ailed her. Then I realized what she had seen—all of our shots were in the black."

Jack snorted. "Now you're braggin'. Me, I gotta be shown. Have a little shootin' range of my own over there; let's see you do your stuff!"

Ginger and I laughed. This was the Jack we remembered from when we first met him, on our hiking trip down the West Coast of Mexico to the border of Guatemala, on our search for the 'Lost City of the Mayas.' Jack, a rugged individualist, and self-sufficient in his own right, always 'had to be shown' when anyone else made a claim.

His practice range was a battered driftwood plank with a row of bottle caps wedged into the splintered wood. "Go on," said Jack, "you asked for it. Let's see how close you can come to that bottle cap on the right."

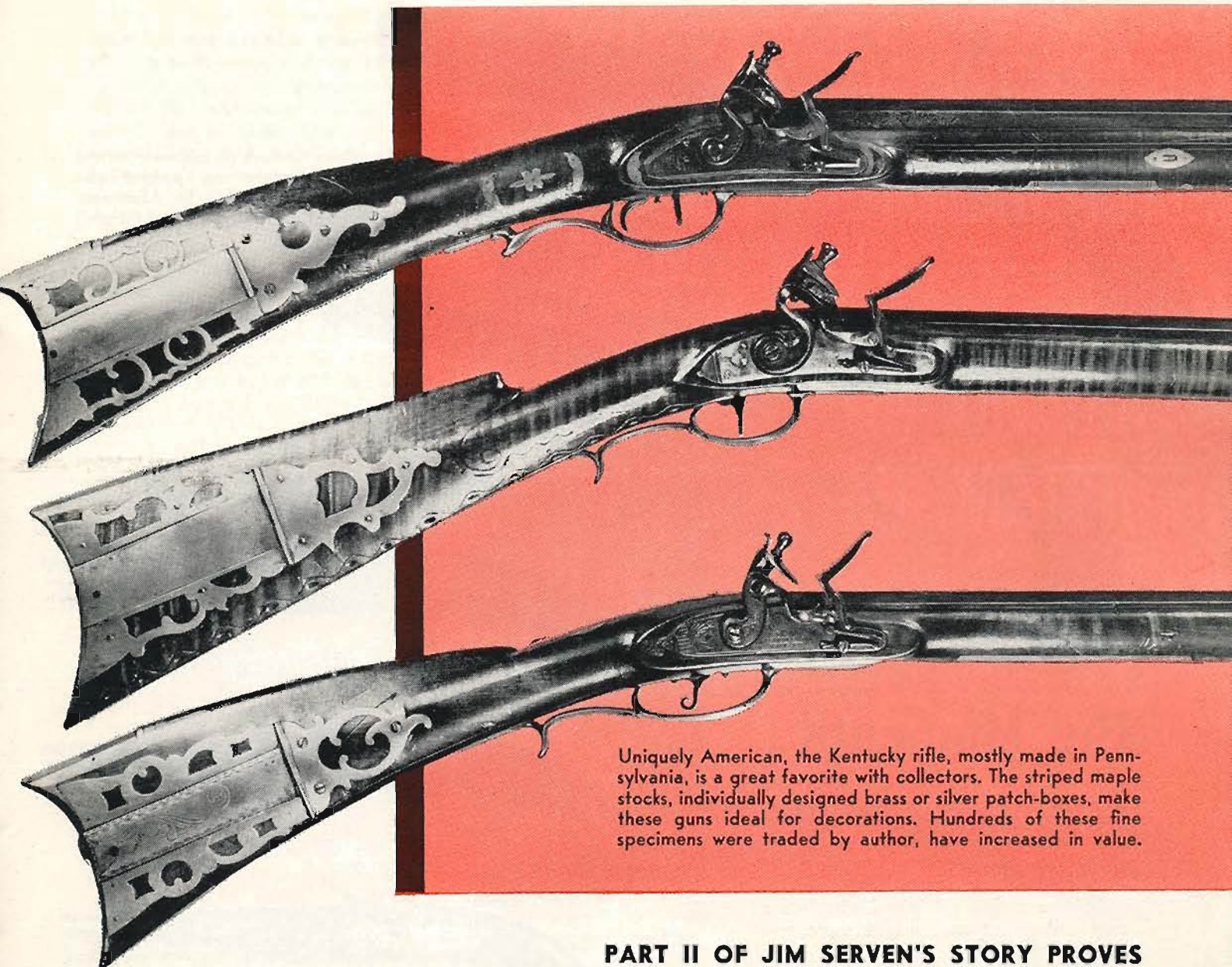
As I drew the .22 and started to get off a shot, Jack shouted, "Hey, boy, now what in Tarnation's goin' on here? That ain't no way to shoot! Tain't legal!"

Ginger said, "It's legal for us. About anything is 'legal' when you're off in the jungle all alone and hungry. If we can shoot overarm, or from a rest on a tree limb or something, we do it. This isn't target competition; we shoot to eat—you know as well as we do that you usually get only one shot. If you miss, the game is scattered and spooked for as far as the shot can be heard."

"All right, all right," Jack (*Continued on page 42*)



Jack Barker with four-barreled gun. One 12 ga. tube was changed to .410. Because of extreme humidity, barrels are always stuffed with oiled rags when not hunting.

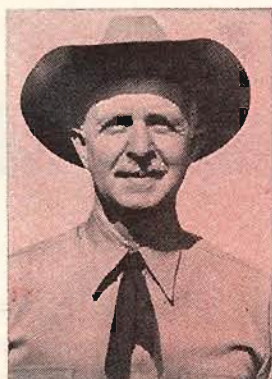


Uniquely American, the Kentucky rifle, mostly made in Pennsylvania, is a great favorite with collectors. The striped maple stocks, individually designed brass or silver patch-boxes, make these guns ideal for decorations. Hundreds of these fine specimens were traded by author, have increased in value.

**PART II OF JIM SERVEN'S STORY PROVES
THERE'S STILL "GOLD IN THEM HILLS" FOR COLLECTORS**

Big Moments in Collecting

By JAMES E. SERVEN



James E. Serven

CALIFORNIA'S Mother Lode country has been rediscovered in recent years, and places like Angel's Camp, Rough and Ready, and Yankee Jim's see a heavy flow of tourist travel. There was rich panning there for the gun collector in earlier days, and I do not doubt that many weapons of the gold rush days still lay hidden in some of the old homes. I have had my share of rich strikes there, including a fine Texas Paterson Colt pistol which the Sheriff of Calaveras County sold me at a price I later learned was somewhat less than an offer made him by another man. He just didn't like the other fellow, and I was his friend. This is the way they are up in the small towns of the Mother Lode Country.

Collectors find different and thoroughly interesting situations in every section of the country. One of the most amusing in my long chain of collecting memories was a visit



Beautifully-made American flintlock pistols were owned by Jacob Mickley, revolutionary war patriot who moved Liberty Bell from Philadelphia to Allentown. Guns became known thereafter as "Liberty Bell Pistols."

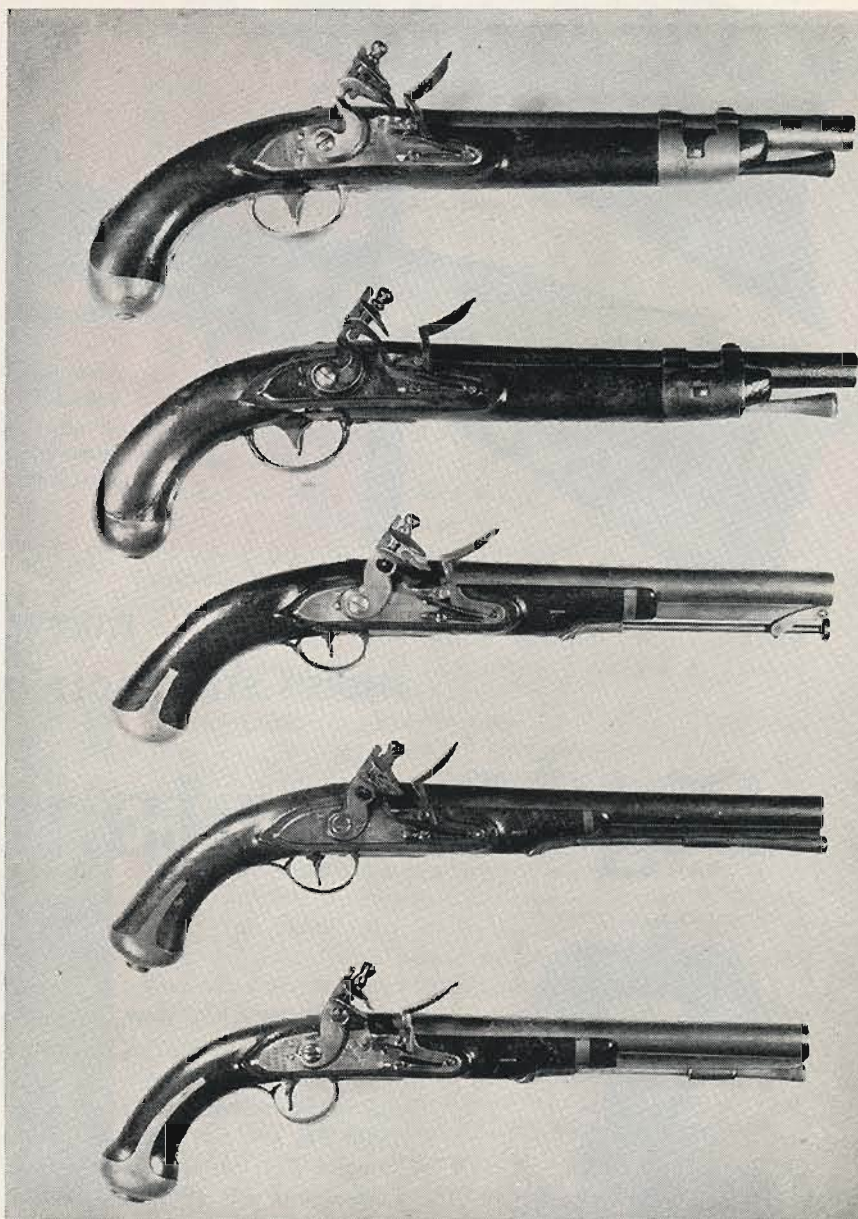
Big Moments

to Bowling Green, Kentucky. I found the most exciting place in that town to be, strangely enough, the local funeral parlor. The proprietor was a gun collector and a spell-binder of the old school who had a story to fit every gun. And I, of course, was a willing listener.

After giving me the full treatment on all the guns which decorated the walls of several rooms, he took me into his office and, with a flourish, opened his safe. Drawing out a little derringer pistol, he leaned over toward me and confided in a whisper, "This pistol was in the pocket of the preacher when he married Abe Lincoln." He offered no explanation why the preacher had the pistol, although I half expected him to say the preacher wanted to be sure he would be paid.

Next, my undertaker friend drew from the safe the most dilapidated Remington cap and ball pistol I had ever seen. He handled it with great reverence. "This pistol," he said, "was carried by a famous Confederate General, who was shot off his horse while bravely leading his men across a river. Later the pistol was recovered from the river, and, see there—that's the *original rust!*" Several years later, I bought that entire collection—stories, rust, and all.

An incident with an element of comedy



These five flintlocks are typical of the firearms issued to our army during early part of 19th Century. Some of these guns were made at the Springfield Armory, others at Harpers Ferry, still others by private martial contractors in U.S. Today, all are collectors' items.

happened when I lived in Arizona. My ranch was 45 miles south of Tucson, toward the Mexican border; but Tucson was the nearest express office. One day I received notice that about a dozen boxes containing firearms had arrived, so I headed my station wagon toward Tucson.

I had known the express office employees for some time and we had become quite friendly, but this day I noticed that they seemed rather ill at ease. Then out from the back office came two husky, sober-faced men who approached the counter where I stood.

"Are you James Serven?" one asked.

I replied that I was indeed James Serven.

"And you live at High Haven Ranch toward the border?"

I admitted that I did. "Then maybe you'll tell us why you need 448 pistols at your ranch. We are from the United States Marshal's office."

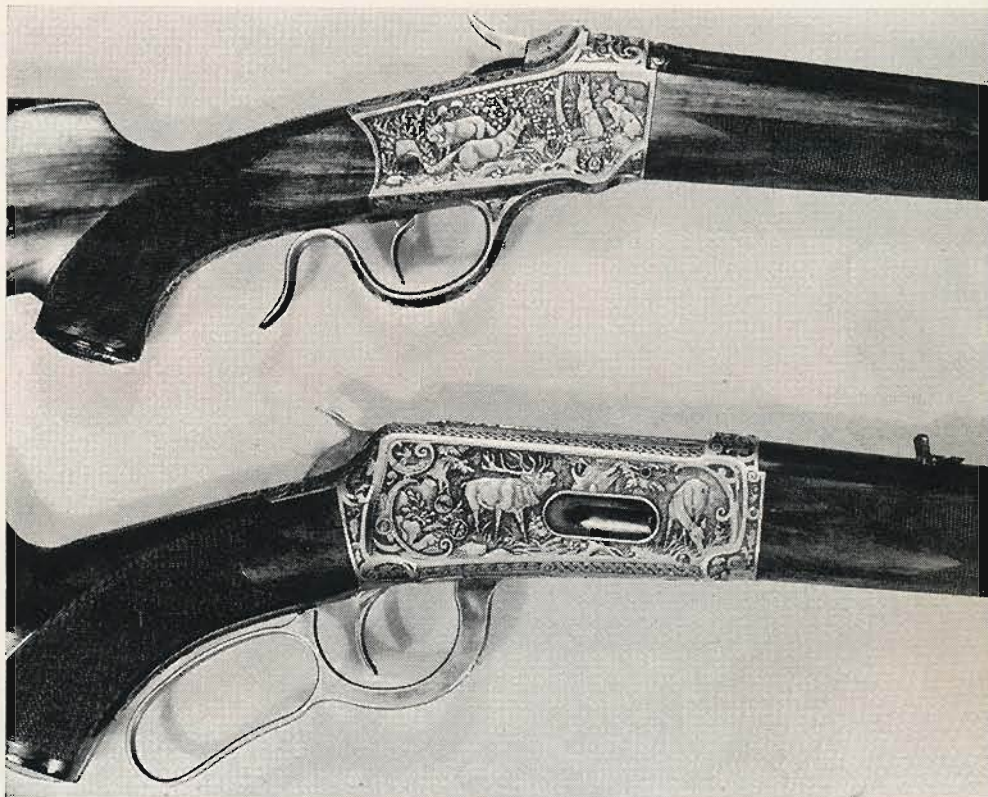
By this time, I had begun to see the light. I had a number of friends in the various law enforcement agencies, one being the inimitable Lee Echols, former National Pistol Champion, who was then in the Border Patrol Service. I knew that a lot of arms-running to Mexico had been troubling the officials. But the humor of the situation seemed too good to tip my hand right away, so I merely said, "I like pistols, and I like all kinds. I'll tell you what: you just select any of these boxes, and take a look at the contents. Then if you'd like to see them all, come with me down to the ranch and I'll show them to you."

Although showing some suspicion, they agreed to my suggestion and opened up one of the boxes. The first items out of the box were a pair of long-barreled "Lord Nelson" flintlocks, circa 1805. One officer looked at the other. Both faces took on a more ruddy glow—then a pair of rather sheepish grins broke through.

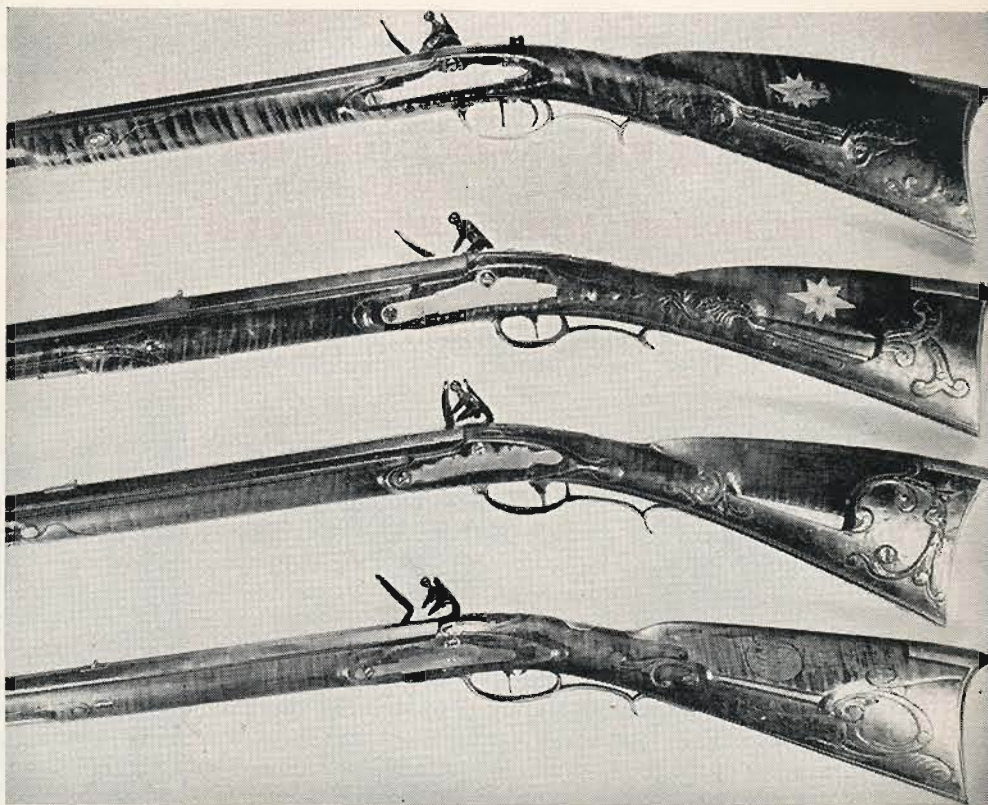
"Professor Scrafford of Syracuse University spent many years assembling this collection of antique pistols," I told the officers. "He'd feel pretty upset if he thought his historic weapons were mistaken for common automatics or other modern trash destined for use below the border."

The word got around the Federal building, for the officers proved to have a good sense of humor, and Harold Collins, the postmaster, had a lot of fun after that introducing me as his gun-runner friend.


In all the (Continued on page 39)



The low-wall Winchester (top) and the Model 94 Winchester shown are examples of artistic work lavished on some of the early guns. Superb craftsmanship make guns like these highly desirable items.



Early American-made flintlocks were often highly decorated and a few of them have survived the onslaught of time in perfect shape. Guns of this general type mowed down the invading British army at New Orleans in 1815 and, although slow to shoot, proved very lethal.



Show me a man who says **DOVES ARE EASY!**

**MANY GUNS, MANY METHODS ARE USED IN DOVE SHOOTING, BUT
NOBODY YET HAS FOUND A SURE WAY TO HIT
THE EVASIVE, WHISTLE-WINGED GREY SPEEDSTERS**

By CARLOS VINSON

CONSERVATION OFFICERS in the area estimated that there were at least 1,000 doves feeding in the one 30 acre field. It was a freshly harvested millet field in the foothills of the Cumberland Mountains in central Tennessee.

About a dozen miles away, in McMinnville, plans were shaping up for what was supposed to be a limited dove shoot during the opening afternoon of the season that was just a week away. About 15 of the town's sportsmen were to participate in the shoot. The farm owner, a non-hunter, had given his permission for the shoot to a couple of his McMinnville friends and then forgot about it.

Somebody had let the cat out of the bag, and the opening day turnout at the one field was 153 hunters. During the afternoon, the 153 hunters fired about 3,000 shots, but the total bag was only about 400 doves. The sixty-odd shooters who showed up at the field the second afternoon, found only about 100 very wild and jittery doves still feeding in the field. The other 500 had just vanished from the area.

During the opening afternoon shoot one particular dove flew almost the entire length of a bushy fence row that bordered the millet field on one side. The dove was entirely too high for effective shotgunning, but nevertheless a total of 24



Checking signs in corn field can tell hunter if doves are feeding actively on foxtail grass seed.

Fast-flying grey ball of feathers presents a tricky target, requires a dense shot pattern.

shots were fired at the little speedster. The last shot scratched the dove down. As might be suspected, less than 60 of the 153 shooters accounted for fully 90 per cent of the doves bagged that day.

I have no particular objections to excessive shooting if fellows want to spend their dough that way, but I do have good substantial grounds for objections to over-shooting.

I did not fire in the opening day blitz. I never liked such highly competitive shooting, and the opening day assault set up the kind of shooting that I like best.

I live about 10 miles out of McMinnville. Prior to the season's opening not enough doves were feeding in the fields near my home. There were three big feeding field concentrations in a two county area (Warren and White), but that was just about it.

Besides a scattering of late nesters and stragglers throughout the area, the 3,000 or 4,000 doves in the three concentrations were mostly native birds.

By the third afternoon of the season two of the concentrations of mourning doves were broken up, mainly by excessive concentrated shooting. Not a single dove could be seen feeding in the fields during the fourth afternoon of the season, and only about a dozen were still feeding in one field I saw. The owner of the remaining dove-invaded field had restricted the number of shooters per afternoon to 15, and consequently shooting in and around this field remained good throughout the first two weeks of the season.

Better than 1,200 doves remained out of the two broken-up concentrations after the season opened. That meant that better than 1,200 doves were scattered over the entire two county areas and were feeding in small flocks, numbering a dozen to twenty-five or thirty birds. Other doves drifted in from other counties where big concentrations had broken up.

I was squirrel hunting when I discovered one of these smaller concentrations. Our Tennessee dove and squirrel seasons had opened the same day, and the season had been open about a week when I made the discovery. I had been



looking for such a set-up and now patience was rewarded.

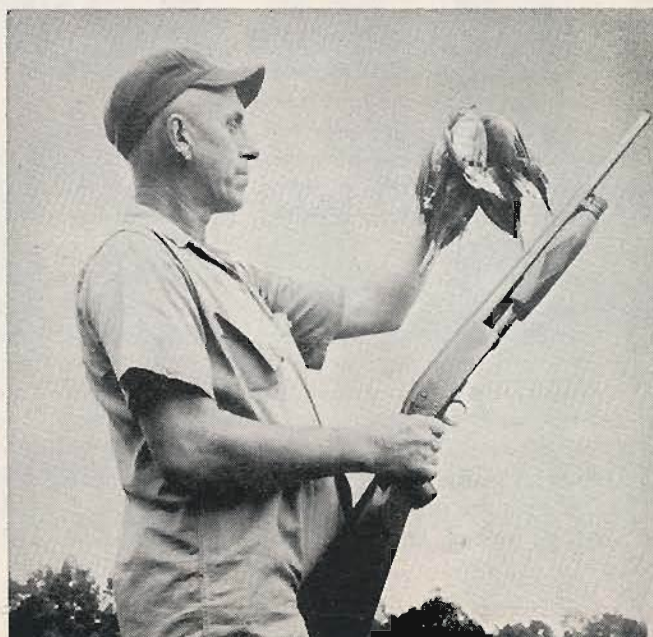
There were about 25 doves feeding in a neighbor's corn-field, and two or three hunters can do a better job of jump shooting in a field of standing corn than just one. Since none of my hunting buddies cared to join me, I decided to try it alone.

The doves were feeding on a fairly heavy undergrowth of foxtail grass seed, that had (Continued on page 43)

When doves are flushed out of range in standing corn, squatting hunter does not attract birds' attention.



Author looks over the results of his solo hunting in standing corn field. Gun is 12 ga. Ithaca 37 R Deluxe.





Unknown rimfire similar to shorter Mountain Gatling round; W. M. Storm for transformed musket; B. S. Roberts for same gun; load for Field Gatling. All are .58 caliber rimfires.

CARTRIDGES: BIG, FAT, AND RIMFIRE

By GRAHAM BURNSIDE

**BIG BUT NOT VERY POWERFUL, THESE HUSKY
RIMFIRES ARE NOW COLLECTOR RARITIES**

NOTHING DELIGHTS the collector more than big, fat, rimfire specimens. Maybe it's because we normally associate rimfire priming with smaller rounds like .22's and .32's.

Back in the days when the rimfire was king of the cartridges (the late 1850's and early 1860's), rimfire cartridges were made in very heavy calibers. There were the .58's for a number of altered muzzle-loaders; there was the .69 caliber Crittenden and Tibbals; and there were even Gatling gun rounds in .75 and one-inch caliber.

Most of the large rimfire cartridges (.58 caliber and over) are darn hard to come by these days. The average arms enthusiast may not even know of their existence.

Before good centerfire priming was entrenched, the rimfire type was used extensively, yet the span of years that it enjoyed overall popularity was relatively short. We have of course the ubiquitous .22, but the popularity of this cartridge is easily explained. The popular .22 rimfire is inexpensive and does the job. To make a non-reloadable round in .58 caliber is not at all cheap, and such a cartridge does not fit a general need, since its power is limited.

Actually, the rimfire system for large calibers was beaten before it got started. To make a cartridge powerful, a powerful load of powder is required, and in a rimfire this has its limitations. Sure, go ahead and pack a lot of

powder in the case, but don't put in so much that it will blow out the simple folded-head case construction. The rimfire case must be thin enough and soft enough so that the striker will indent the rim to the extent that the priming compound will be set off. Also, the same rimfire case must be strong enough to contain the powerful expanding gases. If you will ponder this problem a while, you will realize that there is a point where the rimfire method simply bogs down—and this point is far short of what we want in a good

heavy caliber, high-powered cartridge.

Almost everyone in the arms business realized the above facts back in the middle of the 1860's, but before the centerfire system took over, a number of large rimfires were manufactured.

To describe all of the really big rimfires would take too long, and thus this article will be restricted to rimfires of .58 caliber.

Fifty-eight hundredths of an inch was the official U. S. Government caliber of the Civil War. And consequently this size was used for those rimfire

rounds that were made for the transformed muzzle-loaders.

In 1865, there was an official U. S. Government rifle that utilized parts of the Civil War Musket. It was the first Allin alteration, and took a .58 caliber rimfire cartridge. This cartridge is called by collectors ".58 rimfire musket" and ".58 Allin" or ".58 Miller." It seems that a Mr. Miller also made an alteration that used the same round. Possibly there is a slight difference between the "Allin" and the "Miller" cartridges, but I have failed to determine any accurate classification.

To my knowledge only nine different variations of the .58 rimfire musket cartridge are known. In the line-up of nine rimfire cartridges, the first specimen is a full charge blank with a conventional roll crimp over the wad. This type appears to have been made by the Union Metallic Cartridge Co. and may have been made for the U. S. Government as the rounds come in an unlabeled government-like box. The second item is a half-charge blank with the wad seated well down in the case. Again it appears to be of U.M.C. manufacture.

The third round is another full charge blank which was taken from a

labeled U.M.C. box. The only difference between this one and the prior one is in the style of the crimp over the wad and the color of the paper wad itself. This third blank has a more abrupt crimp that holds the wad over the powder. Possibly this is an improvement over the first specimen in that the more tightly held wad would tend to increase pressures slightly, thus result in a louder report.

The remaining six .58 rimfire musket cartridges are variations of the loaded ball ammunition. Number four and number seven are devoid of a headstamp. They are both included in the group because their case lengths vary, number seven bears a slash mark on the head, and the bullets and case crimping are in variance. It may well be that one of these is the true "Allin" specimen and the other, the "Miller". It could be, but if so, I know no way to tell which is which!

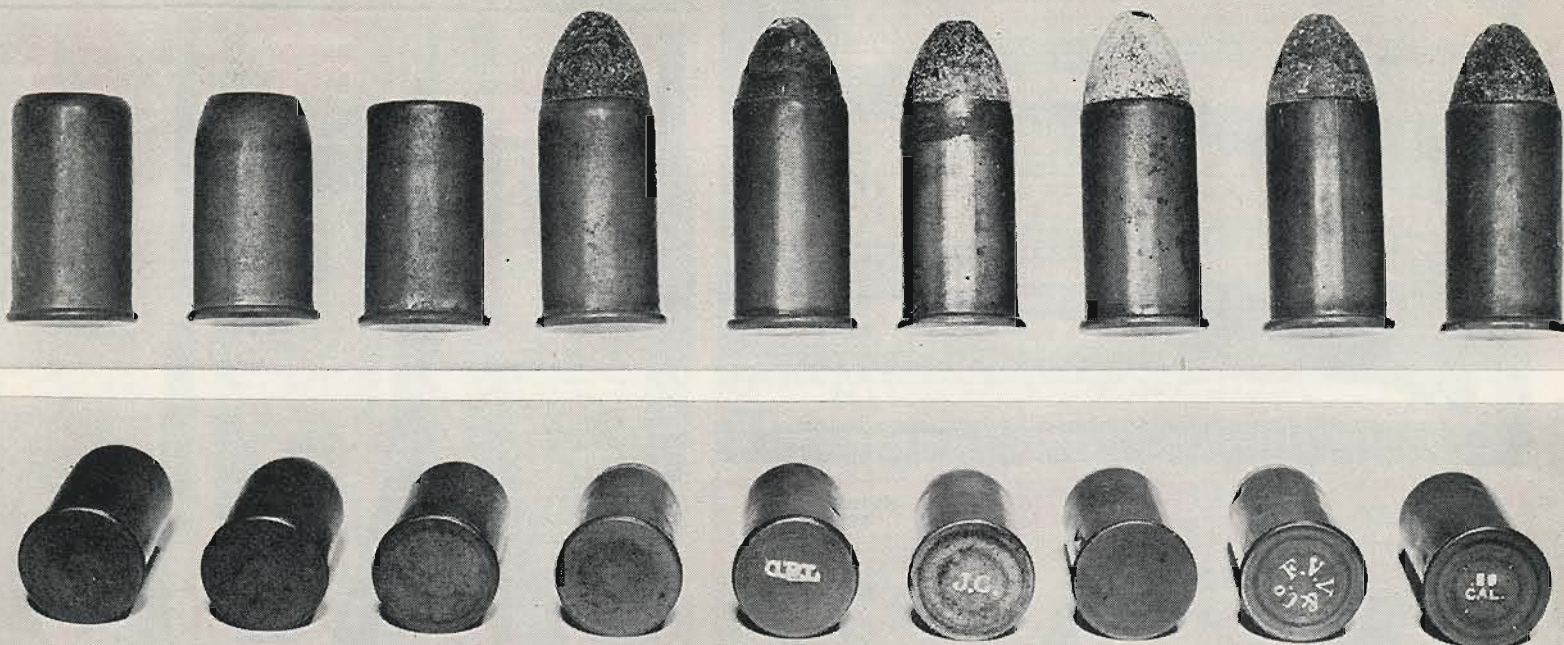
Number five in the group was made by C. D. Leet of Springfield, Mass.—probably on contract for the U. S. Government. These rounds with the "C.D.L." headstamp are usually found in advanced collections. The novice collector who has such a specimen is fortunate indeed, since the "C.D.L."



Rimfire .58 for the Joslyn Civil War carbine is on the left. At right is a .58 RF cartridge for the Mountain Gatling.

specimens are valued at about \$30.

The sixth .58 rimfire musket cartridge shown was manufactured by Jacob Goldmark of New York City. Again, this was probably a government contract. This "J.G." .58 rimfire is the rarest of the group. The "J.G." mark is commonly found on .56-50 Spencer cartridges, but in .58 it is rare. I have been offered as much as \$35 for my specimen, but managed to turn down the offer. (Continued on page 63)



These are all variations of the .58 caliber rimfire cartridge, and as collector's items, are worth considerable money. From left to right: Musket full charge blank; one-half charge blank; full charge blank by U.M.C.; unmarked ball round; ball load by C. D. Leet, Springfield, Mass.; ball load by Jacob Goldmark, New York City; a variation of unmarked ball round; ball loaded by Fitch Van Vechten & Co., New York City; and a ball load made by a U.S. arsenal. The Leet specimen is very rare and current value is about \$30, while Goldmark round goes as high as 35 dollars.



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MAUSERS!

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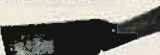


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Cal. 7MM



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		7.65 MAUSER SOFT POINT (20 rds.)	\$3.45
		7.65 MAUSER SOFT POINT (45 rds.)	\$6.65
		8MM MAUSER SOFT POINT (40 rds.)	\$5.90

(Those few with asterisk (*) above are partially shootable but fully componentable.)

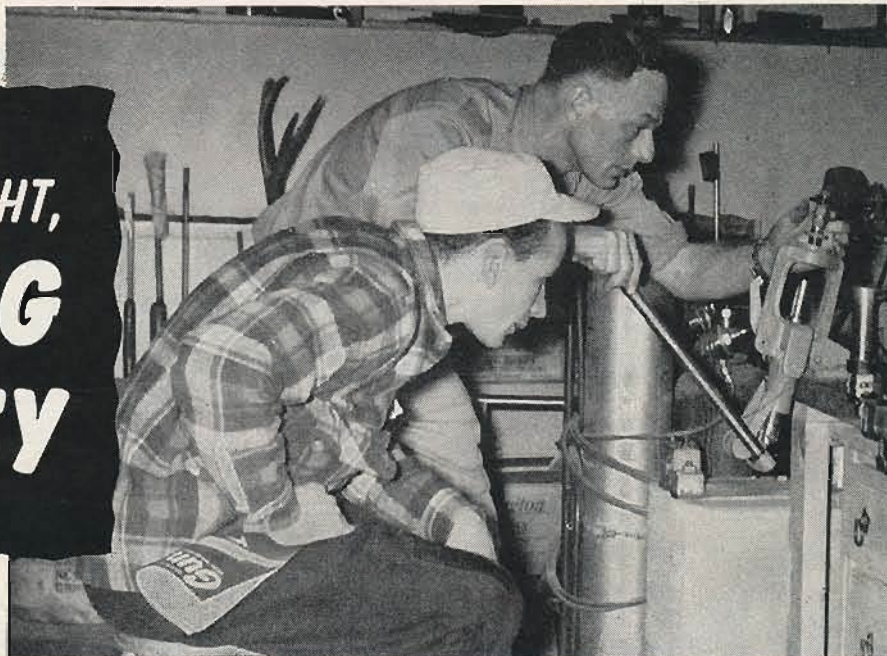
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IF YOU DO IT RIGHT, RELOADING IS EASY



By WILLIAM SCHUMAKER

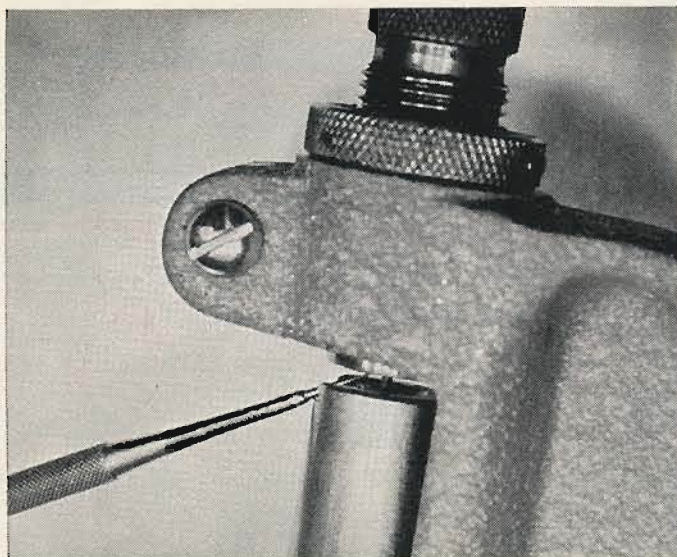
Reading loading manuals and books for beginning handloader is good, but should be supplemented by demonstration from an expert loader.

IN SPITE OF all that has been written, there still is much valuable information that has been overlooked, or not absorbed by, the beginning handloader—and/or the handloader who is beginning to have troubles. Peculiarly enough, it usually is some simple thing that gets handloaders into trouble.

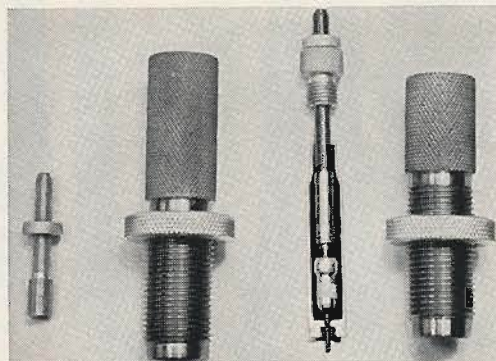
Shooters ready to buy loading equipment should make an effort to save cases fired in their own guns. Cases collected from friends should be kept separate and sorted as to make. Brass of different manufacture may be slightly heavier or lighter, requiring a different powder charge as

well as special treatment in sizing. All cases you expect to reload should be inspected for cracks, head separations, and general cleanliness.

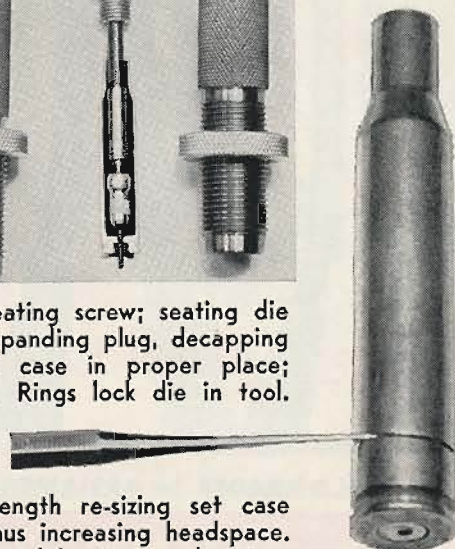
In selecting a loading press, most of the sturdier bench types taking the $\frac{7}{8}$ x14 threaded sizing and seating dies, will serve you well. A first look at these dies reveals one with a decapping pin protruding from it. Up the spindle from this is the expanding plug, which is .005 to .0015 smaller in diameter than the jacketed bullet of your caliber. This is your sizing die. Its function is to squeeze the cartridge case back to its original size. Before screwing



Die body should not touch shellholder or brass may be over-sized. If cases don't chamber, turn die down a bit at a time, keep lowering die until brass does chamber.



Left to right: Seating screw; seating die body; spindle, expanding plug, decapping unit with halved case in proper place; sizing die body. Rings lock die in tool.



Too much full length re-sizing set case shoulder back, thus increasing headspace. Separation is caused by too much sizing.

this die into the press, inspect it to see that the decapping pin extends only enough to decap the case. If the inside decapping unit (consisting of the spindle, expanding plug, and decapping pin) is inadvertently screwed down too far into the die opening, the expanding plug butts against the inside solid portion of the cartridge case; the sizing stroke of the press will buckle the spindle, sometimes damaging the expanding plug and pin.

Usually the sizing dies are ready to use as they come from the factories, but inspect them anyhow. If there is some doubt, loosen the lock ring on top of the die, turn the center spindle counterclockwise a few turns.

Screwing the entire full length sizing die down into the press so it touches the shell holder when the tool is closed, is one of the most over-done evils of handloading. Proper setting of the die hinges on two things: Cases from your rifle, and cases accumulated from various rifles. The full length sizing die should really not be used to resize once-fired cases from your own rifle. But since it is so often used, how to use it best is important. The full length sizing die should never be turned down into the press to touch your shell holder, unless it is necessary. Start by setting it to give about $\frac{1}{8}$ " gap between shell holder and bottom of the die, when press handle is in the closed position and $\frac{3}{16}$ " won't hurt, especially on cases having neck lengths in the .270 and .30-06 class.

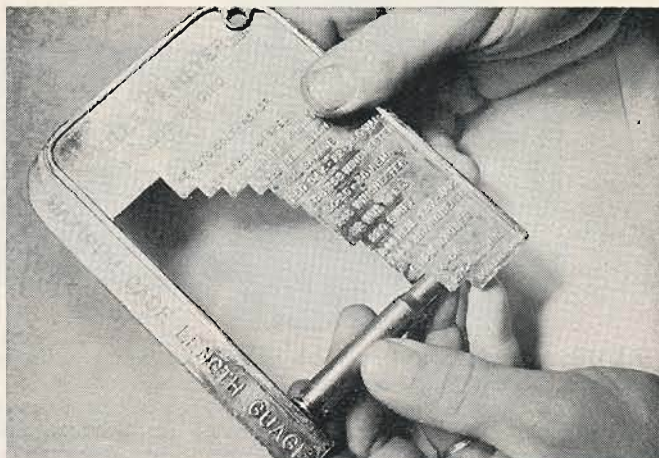
Cases must be lubricated. A clean new ink stamp pad can be saturated with case lubricant, and the case rolled over it. Avoid using ordinary oils, since they lack sufficient viscosity. Do not permit lubricant to get inside case mouths, as oils and greases will deteriorate powder and primer. Dry lubricants can be wiped over case necks, and a small bristle brush dipped in it and pushed and pulled through inside of case necks keeps the expanding button functioning smoothly.

Insert the lubricated case into the shell holder and complete the sizing-decapping stroke of the press handle. Some resistance should be felt, and the fired primer should drop out. When the case is pulled back out of the die by the reverse stroke of the handle, you feel a second spot of resistance. This is the expanding plug coming through the cartridge case neck. It expands the neck to proper inside diameter to accept and firmly grip a bullet.

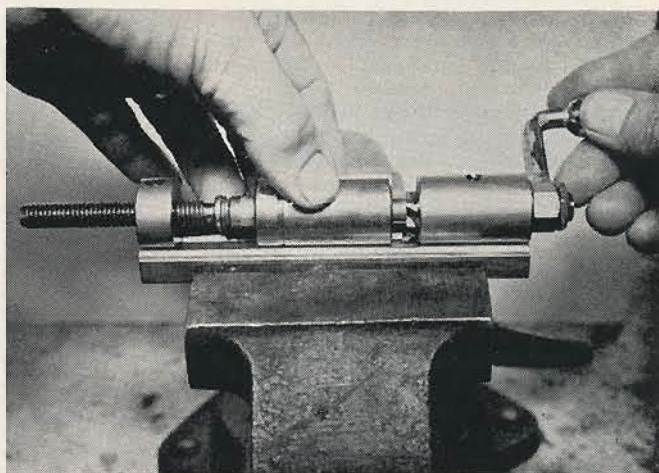
If the old primer is not pushed out, lower the press handle part way, but not enough to feel expanding plug entering the case neck. Turn the spindle down clockwise, but only slightly. If the case decaps when repeating the sizing stroke, fine. If not, repeat the operation just described, until the case does decap. Don't forget to use sizing lubricant sparingly. Too much will cause trapped grease to force dents into the case. If this happens, remove the spindle unit and wipe out inside of your sizing die with a cloth patch folded over a cleaning rod.

Most loading die sets, unless otherwise specified, come with a full length sizing die and a seating die, the latter serving only to seat bullets. In some calibers, or when using lead cast bullets, this die also crimps the case mouth onto the bullet. Since most loading troubles are relative to the sizing die, we will not go into the seating die until later. The full length sizing die can make or break your reloading.

The $\frac{1}{8}$ " to $\frac{3}{16}$ " gap setting between full length sizing die and shell holder, should permit cases from your rifle to re-enter it. If, when trying a (Continued on page 40)



Check case length after sizing. Correct case length prevents excessive pressures, inaccuracy, difficulties in chambering. Use special gauges or vernier calipers.



Brass that is too long is trimmed to proper length in Wilson trimmer. Cutting slightly shorter does no harm, saves frequent trimming. Chamfer mouth in and outside.



Poor sizing made case over-length, crimp is due to brass being forced beyond chamber neck cut. Cratered primer is sign of excessive pressures.



Pull!

BY DICK MILLER

THIS COLUMN, like most other shooting columns, gives out from time to time with shooting advice. This is as it should be. Free shooting advice pleases some of our readers, helps keep our editors in a happy, if tranquilized, frame of mind, and tends to establish us as some sort of expert on shooting subjects.

Trouble is, when we offer shooting advice to readers, we occasionally must back away, and take a hard, cold, look at what we say.

It is difficult to escape the conclusion, however painful, that all printed or verbal shooting advice is offered by an individual or individuals who have found the techniques advocated successful in their own shooting. It does not necessarily follow that another individual will find the same methods or advice the answers to their shooting prayers.

Anyone who has spent time on a trap or skeet range, or around a rifle or pistol firing line, has seen some characters whose shooting form is atrocious, to put it mildly or charitably. It is highly embarrassing to learn that the fellow or gal with the outlandish

stance etc., is the club champion, and a real hot-shot.

In this connection, I recall a friend from my Southern Indiana tournament shooting days. He was, and is, one of the best trap shots in the Midwest. But, if you had a wager on him in a shooting match, you might die a thousand deaths, if you followed him down the line. He breaks most of his targets in the last split-second before they hit the ground. But, the point is, he breaks them, lots of them.

Now, any shooting coach worthy of his salt would tell his pupils to break that target as soon as he could get on it, and that my friend's method is all wrong. My friend's style is wrong, agreed, but it certainly works for him. The story gains a little more flavor when I reveal that he shoots an ancient field gun from which most of the bluing has long departed.

On the other side of the coin, I know another trapshooter who breaks targets before most of us can see that they are out of the traphouse. He breaks them often and plentifully. Most shooters who try to imitate him shoot big holes in the ozone, and save the club a lot of unbroken clay birds.

Many of our readers who have followed the tournament circuits know that the "twist" is not new in shooting. We have seen shooters doing the twist before letting off a shot long before anyone thought of adapting the contortions to the dance floor.

We shooting columnists and shooting coaches tell the tyro to stand easily and naturally. But, some of the people who shoot after going through the twist to get ready own a large share of the world's shooting records. Certainly new shooters can benefit from good shooting advice. Some of the tips freely given can help smooth the path to better scores.

But, too many shooters receive too much shooting advice. Nothing improves shooting as much as shooting, and more shooting. Advice, along with shooting, can be helpful if it is confined to basics, and does not attempt to remake the pupil in the image of the teacher. After so much preamble, this is what I'm trying to say. Advise shooters, but don't attempt to obtain carbon copies of your own shooting style. And, to the shooters being coached, counseled, cajoled, led, driven, advised or tipped-off, if the advice works for you, fine and good. But, if your own method works best, use it, and go your merry way, no matter what someone else says or does.

These reflective words reach you just in advance, for most areas, of the active shooting seasons. I sincerely hope they bring you a happy year.

Harold Lister, President, the Canadian Trapshooting Association, and Ed Shaske, President of the Edmonton Gun Club, invite shooters to visit the Canadian Rockies and take in the 1962 Canadian Trapshooting Championships at the Edmonton Gun Club, July 4, 5, 6, and 7. This columnist would be happy to be on hand in the Rockies for those July dates.

Dr. Jerry Adams, of Shelbyville, Kentucky, has some words of wisdom for every trap and skeet club. The good doctor points out that probably the most important fellow or gal to any clay target club is that little sub-junior. It is from the ranks of the sub-junior that the interest which will support the club in years to come must stem.

Doc succinctly states that the sub-junior who is with his Dad at the club learning to shoot is not likely to be hanging around some of the spots where he can be started on the road to juvenile delinquency. But, the doctor's ire arises and he is prone to give out with oaths other than Hippocratic, when he finds programs that do not give the sub-junior a goal, something to shoot for, or even a reward for his effort and/or entry. Dr. Adams, and with merit, I think, feels that any program ought to offer a sub-junior trophy. The trophy need not be large, or impressive. A trophy, however small, means a lot to a sub-junior. And, it may be just the reason for him or her to stay in the game, instead of straying to one of the many other sports with which the shooting sports must compete for patrons today. Does your club give the sub-junior recognition?

The skeet tournament trail, active in the warmer climes all of the winter months, swings into high gear in April. One of the big April events is the Florida State Championships (4 guns, 450 targets, and 100 12 gauge preliminary) at the Palm Beach Gun Club, West Palm Beach, April 12-13-14-15.

May 4-6 features the 7th Annual Canadian Open and 13th Province of Quebec Championships (4 guns—500 targets) at the Montreal Skeet Club.

The always great Lincoln Park Gun Club Great Western Open has its 19th running for 4 guns—400 targets May 18, 19, and 20, on Chicago's lake front.

The 24th Annual New York State Championships will be decided at the DeWitt Fish & Game Club May 25-27, and in the Midwest, the always popular Bluegrass Open is the big event at Jefferson Gun Club, Louisville, Ky. on the same dates.

Early in June, from the 1st through 3rd, shooters will converge on Dallas, Texas for the annual Pan-American International Open, a 4-gun, 500 target event.

Trapshooters will be busy in 1962. The early January issue of TRAP & FIELD reports that 293 more shoots had been registered than were on record at the same time in 1961. Clubs are remodeling, building, and enlarging to accommodate the growing numbers of shoots and shooters. TRAP & FIELD also reports that the Amateur Trapshooting Association of America (ATA) has taken steps to supervise and regulate the conduct of International-style trapshooting in the United States.



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BIG MOMENTS IN COLLECTING

(Continued from page 29)

years I have handled guns, despite the complexity and even in many cases the severity of laws applicable to firearms, I have never found compliance with the laws any great problem. The law enforcement officers of my acquaintance are interested only in doing the job they are paid to do. I consider a number of these men among my best friends. United States Marshal Woelber of El Paso was an especially good friend, and I obtained some fine guns from him. I recall one, a Colt dragoon pistol which Woelber had found in Santa Fe. An old trapper named Beley Dodd had traded it for a jug of "Taos Lightning" whiskey. I traded a new Smith & Wesson triple-lock and a bit of cash for it. I wonder what further trades this pistol has been involved in since it left my hands.

The Scrafford collection, which figured in the Tucson incident with officers of the U. S. Marshal's office, marked my transition from a private collector to the status of an active collector-dealer. The Scrafford collection was the first group of guns for which I issued an illustrated descriptive catalog. Having once

ed as any other profession or trade. Their enthusiasm for this hobby is a rather good indication that collecting is good therapy.

Collecting camaraderie has opened many doors through which, under ordinary circumstances, I would have had no occasion to pass. I can think of two governors, numerous legislators, presidents of large corporations, and members of some of our wealthiest and most aristocratic families. This is not very important, perhaps, but it is an indication that the stature of a man among collectors is not necessarily measured by his rating in the social register or in Dun & Bradstreet.

It is a nice thought, too, to know that some of my guns are now in the finest private collections and in important museums such as the Metropolitan Museum of Art. I was very pleased that I could furnish two of the much publicized "1 of 1000" Winchester rifles to the Winchester museum, which lacked specimens.

Having devoted quite a few years to gun collecting and in consequence been given the opportunity to study thousands of guns, it is not unusual that I should have a desire to pass along to others some of the information I have accumulated which might prove useful, and perhaps interesting. That is the primary motivation behind my books and the articles which appear in gun magazines from time to time.

In concluding, I want to tell you of the two largest and most important transactions in my collection career; but before doing so I would like to give you an idea of the conditions which were present when I started to collect guns. And I would like to tell you about the first two large collections I purchased.

The gun collecting fever took a firm hold on me in the early 1930s, just about the time the depression was at its worst. In those days, with money tight, many old guns were available, and they were cheap. As an illustration, the little Colt cap and ball pocket pistols which collectors like to call "The Little Dragoon" are hard to find and now sell for \$500 or more apiece. In the summer of 1932, I found five of these pistols within a twenty mile radius of Woodstock, N. Y., and was not asked to pay over \$15 for any one of them.

We spent our summers in Woodstock in the early 1930s, and it was there I formed a close friendship with a younger collector, Dick Short. Between those days and his untimely death two years ago, we traveled thousands of gun-hunting miles together. When I moved to the West in 1935, Dick Short acted for me in many eastern firearms transactions. He stopped for a short visit at my Arizona ranch one time, and liked it so well he stayed 8 months.

Dick was with me when I made my first large purchases, which I shall now describe. But I hope you will not be discouraged when you compare the prices with those of today. It is well to keep in mind that today's prices will probably seem relatively as cheap 30 years from now.

In 1933, I had learned of two top-notch collections which were for sale at the same time over in Connecticut, and each contained



Swivel breech double barrel caplock was owned by President W. H. Harrison.

made the step into arms dealing, I gave it serious attention. It was the next year, in 1941, that I traveled to Pittsburgh and purchased the O. J. Bierly collection of antique pistols, then temporarily on loan at the Carnegie Museum.

Mr. Bierly was an unusual man, a policeman with very little formal education, yet one of the best informed men on American antiques I ever met. Not only had he assembled an outstanding collection of over 1000 pistols, many of them great rarities, but he had also assembled valuable collections of china, coverlets, and other items in the field of early Americana. He thoroughly enjoyed his long life, too, and I suspect he had at least one hollow leg.

You may ask, "What sort of people collect guns?" I can tell you that they are among the most friendly and democratic people on earth. They come from every walk of life. Let me name a few: Wordney White, a crippled Kentucky mountaineer; Cecil King, a member of Congress; John Ault, mill worker; Philip Phillips, Oklahoma oilman; Father John Kloss, a priest; Bill Florence, heating contractor; Lyle Finley, grocer; John duMont and Bill Sweet, New England manufacturers; Charlie Fritz, Chief of Police; Henry Stewart, engineer; Sam Smith, banker; Bill Locke, insurance; Gerald Fox, department store; Harry Knode, manufacturer's representative; Hugh Hayes, rancher; W. R. Funderburg, M.D. The list is long and the occupations widely varied. Considered in groups, there are as many doctors represent-

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so many interesting guns that I could not resist buying both of them. One was owned by P. C. Cowles of Waterbury and the other by E. W. Adt of Torrington, fine gentlemen, and experienced hands at collecting. I still have the old inventories.

There were 346 firearms in the Adt collection, mostly fine Colt pistols and United States martial arms. The total price asked was \$2,000, less than \$6 apiece.

There were about the same number of firearms in the Cowles collection, but he had sold all his Colt arms to a local collector friend and therefore he asked only an average of \$4 apiece for the others. I recall among these fine guns an engraved and inscribed Henry rifle which had been presented by the United States government. This gun was inventoried at \$10. Today, of course, it would bring one hundred times that figure—but those were the depression days. I had sold my Pierce Arrow and was driving a Model A Ford.

It is quite thrilling to purchase a large, high-class gun collection, knowing that years of diligent search and intelligent study have gone into its formation. About 20 years after the thrill of buying my first collections, those described above, a dream came true when I purchased the Charles Cook collection at Providence R. I. I had attended Brown University at Providence, and my fraternity house had been only a few blocks from the stately Cook home on Waterman Street. Mr. Cook is a legendary figure in firearms collecting circles. Charles W. Sawyer drew heavily on the Cook collection (and Professor Serrafford's too) for material when he published the first truly important American books on antique firearms (1910-11-12).

As a young man and then as a serious collector, I regarded Mr. Cook with a sort of reverent awe. Thus when his son Peter Cook and I came to terms on the purchase of this great collection, it seemed like poetic justice.

I was indeed very proud to publish a carefully compiled, illustrated catalog to perpetuate a record of Mr. Cook's outstanding accomplishments in gun collecting.

There have been many big moments in my collecting career, such as the joy in acquiring fine groups of guns from Dr. Howard Andrews, Carl Cowles, Dr. A. G. Clyne, Marc Woodmansee, Edwin Pugsley, Herman Dean, Professor Serrafford, Charles Cook, and many others; but if I must single out one great moment, I think it must be the day I sat across the table from Mrs. Albert Foster and her attorney, collector John Watson, and turned over to her what seemed to me a small fortune in bank drafts. In return, she passed over to me the bill of sale for over 1500 of the finest antique firearms in America.

There were 14 of the rare Paterson Colt arms in this collection, the greatest number in any collection at that time; there were great rarities of many kinds. Guns had been Albert Foster's business and his hobby. As manager of Colt's New York office and a long-time employee of the company, many opportunities had come Albert Foster's way, and he had invested heavily and wisely.

As Mrs. Foster and I concluded this transaction, faint strains of music drifted in from the music room where Mrs. Foster's son Lindsley, an accomplished pianist, was at practice. Somehow this sounded like heavenly music to me, for I felt as though my head were in the clouds. I would now own, for a time at least, what was generally thought to be the finest gun collection in America!

Friends like the Fosters—the many collectors whom you meet along the way—these are not incidental in the major theme. Without friends to share your enthusiasm, the real joy and the vitality of collecting is lost. This is a simple truth. I can think of no more rewarding pursuits than collecting books and guns—and friends.

RELOADING IS EASY

(Continued from page 37)

case thus sized in your rifle, it does not allow the bolt to close without more than a light feel, then set the full length sizing die down slightly closer to the shell holder, and try again. Do not forget to turn the decapping unit counter-clockwise the equal distance the die has been turned clockwise toward shell holder. Repeat if necessary, until the sized case will chamber nicely in your rifle.

Sometimes it will be found that the operation just explained, with use of the full length sizing die, will prevent a case from re-entering the chamber it came from, especially when you allowed a slight gap between the shell holder and die base. This is usually a puzzler to the beginner. If this occurs, it means the chamber in your rifle is on the large side, or the sizing die body is on the tight side. When the case is thrust up into the die, with the gap-between-die-and-shell-holder setting, and the sizing die is squeezing in on the case body, reducing it in size, this brass must go some place. The point of least resistance is forward into the case shoulder. Since this setting leaves a gap inside the die, between the case shoulder and the corresponding die shoulder, the brass moves up, lengthening the case, and preventing it from re-entering the chamber it came from.

When this situation prevails, you can do nothing but progressively turn the die toward

the shell holder, until sufficient sizing is done, and the cartridge shoulder is forced back again by the shoulder in the die.

Proper sizing of cases from your own rifle is best accomplished by a neck sizing-only die of the same make as your die set, into which the decapping-expanding plug unit will fit. When neck sizing, the dry lubricants will suffice. Immediately after sizing operations, wipe cases free of all lubrication.

With good cases and no over-loading, you can neck re-size brass from 5 to 15 times, or until the bolt closes on cases with too much resistance. Then, and only then, should cases go back into the full length sizing die, and sized only sufficiently to chamber properly again.

Perhaps the worst offense of the full length sizing die is its ability to size in excess of proper full length, when die and shell holder make contact on completion of the press stroke. Here the case shoulder is pushed back toward the body of the case and it is now too short. This creates excessive headspace on rimless cases, regardless of the fact that headspace of the rifle is correct. This is dangerous and should be avoided.

Headspace is the distance between the bolt face of the rifle and the chamber shoulder of rimless case chambers, when the bolt is closed. Thus, a case shortened by over-sizing,

is shorter than the chamber of the rifle. Firing such a cartridge results in its either stretching back to chamber length and size, or separating in the attempt. Results can be wicked!

Depending upon the amount of excessive headspace, and the ability of the brass to stretch, various things happen, and all of them bad. Primers may protrude, forcing extractor off case rim and result in extraction failure. In mild headspace situations the case may withstand several such firings, sizings and reloadings. When considerable headspace has been created, the separation can come at the first shot, and permit powder gases to surge violently through the action. Particles of powder residue and brass may strike the shooter in the face. Case failure can cause a rifle to blow up, even with a normal powder charge and correct bullet.

Case head separations can be prevented by using the neck sizing die, and resorting to full length sizing only when necessary. Remember, the neck die works only the case neck. When the case eventually fails, cracks will probably show in the neck first. Detection is easy and you simply discard those cases.

Few handloaders undertake annealing cases. Yet case life can be increased many times by proper neck annealing. Its purpose is to soften the case necks slightly before they are worked to the brittle stage and crack. A common method is setting them upright in a shallow pan of water, with top half emerged, play a blow torch or alcohol torch flame in a rotary motion around each neck until a bluish color advances toward case shoulder, then tip the case over into the water and go on to the next one.

I anneal by placing cases upright in water, their lower two thirds submerged, then rotate torch flame rapidly around each neck until a bluish color extends over entire case neck. Whisk flame to next case, allowing treated ones to cool without tipping them over. The two-thirds-of-case-length water level cools them fast enough to achieve desired softening. This treatment, with about every eight reloadings has enabled me to fire some 3500 rounds through two .243 Rockchucker barrels, with the same 200 Western Super X cases, and to date a loss of less than six cases.

When you prepare cases collected from various rifles for use in your own, the full length sizing die will probably have to be used. If you are a .30-06 owner, you will encounter military brass with crimped-in primers. Do not decap these with your sizing die. Use a punch and base set, knocking them out manually. Examine the flash holes. They sometimes become elongated from the punch. Enlarged flash holes can dangerously increase breech pressure, by primer flame creating over-ignition. Destroy all cases with over-size flash holes. A primer pocket reamer will be needed to trim out the military crimp, or a C-H primer pocket swage can be used prior to re-priming. Military cases will not accept a new primer otherwise.

Mixed cases from assorted rifles will require sizing in the same manner as outlined for those from your own gun, *except*, each cartridge case which will not enter your rifle chamber easily, must be started with a gap between the die and shell holder setting, the sizing die advanced toward shell holder progressively, until upon completion of the siz-

Don't Let These Laws Pass

Last place on earth in which restrictive gun action would be expected is Tombstone, Arizona, proudly self-advertised as "The town too tough to die," scene of the famous OK Corral battle, home of the Wild West's best (and worst) gunmen. But now comes Sheriff Phil Olander with the recommendation that all citizens register their firearms with his office — on a voluntary basis, for the time being. Arizona law does not require registration of firearms. We suggest that Arizona residents make it known that registration is not wanted, voluntary or otherwise. Once the bear gets his nose inside the door, it's hard to stop him.

Georgians also are warned against Senate Bill 132 (Dews; District 9) requiring a Certificate of Residence prior to purchase of a handgun. Georgia laws do not presently require license to purchase, and this bill would constitute a radical and unwanted restriction. Express your opinions to your elected lawmakers and/or to members of the House Judiciary Committee.

And, finally, resident of Massachusetts should take appropriate and immediate action against House Bill 1379 (by P. N. Carney; referred to House Committee on Public Safety), requiring written notice by the seller of any firearm to the police department of the city or town in which the purchaser resides; and of House Bill 2315 (by John A. Armstrong; referred to House Committee on Public Health), fixing a yearly license fee of \$25 for the seller of "any . . . dangerous or explosive substance." This includes your ammunition, and the fee is needless and oppressive. Protest these bills to their sponsors, to your representatives, and to the members of the Committees named.

ing stroke, it will enter your rifle. Wipe off lubrication before chambering try, and relube if it requires more sizing. Be positive that all cases chamber properly before loading.

Cartridge cases tend to stretch and become too long after numerous loadings and firings. This can run you into excessive full length sizing problems, since the symptom is difficult closing of the bolt. Your first impulse will be to size the case back farther, but this still leaves the bolt closing with resistance, although you have shortened the body to less than correct headspace.

Check your cases for correct length. Gauges are available for this, as are trimmers to shorten them. If they will not easily enter a maximum length gauge, they should be shortened. Slightly over-shortening will do no harm. Operating trimmers such as the Forster or Wilson is very simple. Case is held by a collet in the Forster, and by a chamber-like shell holder in the Wilson. Cutters can advance only to their stop-position. Amount of trimming can be adjusted. Follow manufacturer's instructions. Case mouths should be de-burred inside and out after trimming.

If cases fired in a bolt action rifle, require

full length sizing and trimming with less than five to eight firings, there is a possibility you are over-loading, expanding the brass too violently. Slide action or autoloading rifles, in order to function properly must have ammunition that goes easily into the chamber. They may call for full length sizing with nearly every firing. This results in shorter case life. Extra caution should be exercised in inspecting the head separation trouble point, and any brass showing a faint metal-tearing line should be discarded.

With your empties sized, trimmed if they needed it, and tried for proper chambering in your rifle, clean primer pockets with a primer pocket cleaning brush. Clean and check flash holes for size uniformity.

Wash grease or oil from your hands before handling primers. Cases must be wiped dry. Place primer open side up in the priming arm pocket. With the case in the shell holder and priming unit in place, move press handle opposite from the sizing stroke to seat primer. Move case onto the live primer smoothly and firmly, not with a wild yank. You should feel a firm little resistance as the primer is sent home flush with the case base.

Sometimes a primer will catch or hang up on the edge of the primer pocket. Jerky, careless manipulation of the press handle could fire a primer in this instance. Feel plays a big part in primer seating. They must all seat with a slight firmness. If there is no resistance, your primer pocket is enlarged, likely from over-loading, which has caused the entire case head to expand. Such brass should be discarded, primer and all. *Do not decap live primers.*

As you complete priming, place cases in a loading block so they won't tip over. Don't forget to prime cases before charging with powder and seating bullets. Don't prime a case already charged with powder and seated bullet.

(To be concluded)



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WE SHOOT TO EAT

(Continued from page 26)

grumbled, "but trying to shoot overarm like that, that's downright dangerous. Why, the breech recoil can bust your nose. But go on; show me."

"O.K., Jack, it all boils down to this. If you can't find a good steady rest for the gun, you shoot overarm. It takes practice, but here's the way it works."

"It's just like folding your arms, except they are raised to shoulder height and held out from the body at right angles. The gun barrel fits into the bony hollow of the left elbow, and is held there firmly. The trigger guard is pressed hard against the large veins in the crook of the elbow to cut off the pulse. The left hand grasps the right forearm, to add more steadiness."

"Next thing, and about the most important to remember, is to keep enough distance between your nose—or eye—and the back action of the breech. If you don't, result, one busted nose! But if you do it right, and get that little ivory head centered on your mark, you're pretty sure that bullet's going to land where you want it to."

Jack scratched his thatch of iron grey hair. "O.K.," he said, "I'm still waitin' to be showed."

Although peep sights have been around for a long time, the idea of using them on a .22 automatic pistol was slightly revolu-



Graps right forearm with left hand to cut off pulse and add steadiness.

tionary. At least, we had never heard of it being done; and neither, it seemed, had Jack. We did not have to sell Jack on the idea, only to show him that this 'new fangled gimmick' as he called it, was practical for those of us who must depend upon accurate shooting to supply ourselves with food when we are off in unexplored areas where there is no supermarket just around the corner.

Ginger and I were serious as we aimed at the row of bottle caps on the splintered plank. We didn't want to look foolish before an old and valued friend.

"I'll be hornswoggled!" muttered Jack as we fired away, sending his tiny targets flying off into the hot sand. "You young'uns have got something there!"

Late that afternoon, we went hunting with the man with the four-barreled rifle. It was a beautiful evening, clear, balmy, just the kind of weather that brings out the game. Jack had appointed himself an unofficial but effective game warden of the area, and along with his trusty 'Betsy,' had kept out the game hogs. As we moved silently along the jungle game trails, there was an abundance of wildlife to be both seen and heard.

Finally, I spotted a wild turkey and started to take aim. "Let that one go; he needs some fattenin' up," Jack whispered.

As we penetrated deeper into the humid jungle, more game showed; a browsing deer, ignoring the warning of a flock of mountain pigeons as they changed trees; a large iguana scampering along a log; and two little wild pigs scurrying on their way. Each time, Jack gave the signal not to shoot. And we heard a lot more game than we saw—interesting, mysterious sounds of the jungle.

As we took a breather in a little glade, Jack said, "It's not so much the huntin' as it is the lookin', that's fun. And, anyway, there's just the three of us; we couldn't manage to polish off a whole deer or a wild pig—and in this climate, without refrigeration, meat won't keep. Let's just keep on lookin' till we find what's right for us."

Later, after we had 'hunted' and 'looked' through some beautiful country, Jack spotted a plump wild turkey that suited his fancy. He whispered, "That'un would look right good spitted and broilin' over the coals. Hit him in the head, Dan. No use spoilin' good meat burnin' a bullet through his body."

I whispered back, "I'm not that good. If you want that bird shot through the head, maybe all three of us should take a crack at him—one of us will surely score a hit."

"Tain't sportin'," Jack grunted, "but that's a mighty fine bird. He'll make us a good supper."

Jack raised his four-barreled rifle, carefully cocking only the .22 barrel and making sure that the .410, 12 gauge, and .30-30 barrels were disengaged. He said, "When I count to three, fire."

Ginger and I lined up our sights. The stillness of that jungle night was shattered as the blasts from our guns reverberated through the dense foliage. The bird toppled. From the look of him, at least two of us had scored a hit.

As we sat around the glowing coals of the campfire, well satisfied after an evening filled with the kind of adventure we enjoy, and full of broiled wild turkey, Ginger mused, "I guess we'll always wonder whose shot really brought that bird down."

Jack tossed a piece of driftwood on the coals. As it flickered into flame and lit up his rugged features, he drawled, "Well, I guess you'll be eatin' what you shoot at on your trip, all right. You see—I didn't pull my trigger."



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WHO SAYS DOVES ARE EASY?

(Continued from page 31)

sprung up in the cornfield after cultivation ceased. The cornstalks were well over my head, and I realized that most of the shooting would be of the snap variety.

Five doves flushed well ahead of me and out of range soon after I entered the field. Fifty yards further on two more flushed, one of them in gun range. I was easing along with my gun ready, and I whittled the sharp-tail down after he topped the cornstalks.

I was shooting a 12 gauge Ithaca model 37R Deluxe pump gun with 28 inch modified barrel, and was using Western Super-X shells with 7½ shot. This I consider an ideal combination for dove shooting.

My shot put at least a dozen doves into the air over the 20 acre cornfield. They were circling fairly low, evidently in an effort to discover the source of the disturbance. I squatted down and remained as motionless as possible. Remaining motionless while doves are in the air is one of the big secrets of successful dove shooting, and a hunter in a squatting position is far less apt to attract attention than one standing up, especially in a cornfield.

Three of the circling doves came over within gun range. I downed the lead dove with my first shot, missed one of the others with my second load, and did not have time to fire a third shot before the birds disappeared. If there had been three or four hunters in my party, scattered in different parts of the field, all could have had shooting at the doves as they circled over the field. But

hunting alone involved more legwork.

I was almost across the cornfield when the next doves flushed. There were five of them, and a couple wheeled back over me within easy range. I scored a neat double, but knew better than to thump my own chest.

The next four birds I missed as clean as a whistle. Six or seven came over flying fairly high and fast soon after I made the double. My first shot, a clean miss, put those to bobbing, weaving, and dipping doves into flight, and I uncorked the three shells from my gun without so much as ruffling a feather. I reloaded as fast as possible and missed a lone straggler.

Near the edge of the cornfield, I rested for about fifteen minutes to give the remaining doves a chance to get settled again. Normally, where there's only one hunter in the field, doves flushed by the sound of gun shots will make a few circles and then settle down somewhere in the field. Fifteen or twenty minutes without shooting will make them less jittery and more apt to sit tight until the hunter is within gun range before flushing. Even with several hunters in a field, pauses like this will improve shooting.

A party of three or four hunters jump shooting in a field of standing corn should agree on a course before entering the field. Each hunter should work from a predetermined point to another predetermined point and back to his starting place. By hunting this or a similar pattern, no one is apt to get sprinkled with shot if one of the party cuts

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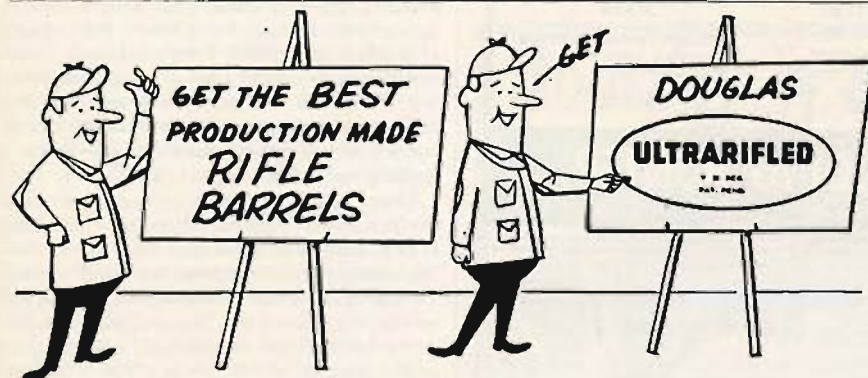
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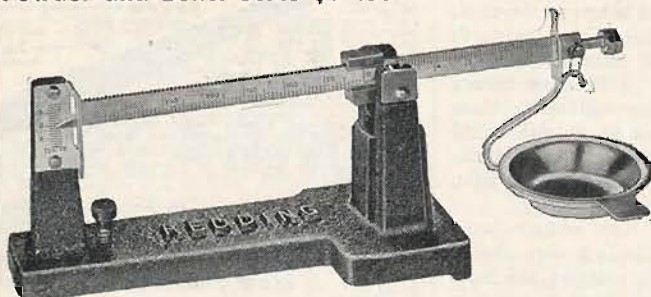
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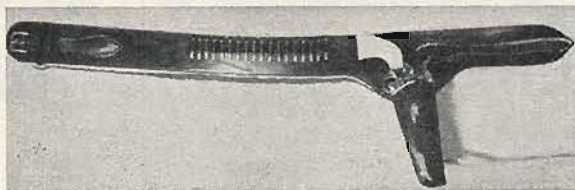
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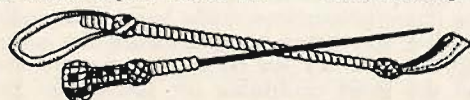


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loose on a low flyer.

Starting slowly back across the field, I was suddenly startled by the backfiring of a tractor that started up on an adjoining farm. The loud noise put a dozen or more doves into the air, some of which I would have walked up while crossing the field.

The sharp-tails had evidently forgotten the location of my last shooting. Four came over me fairly low and flying at a medium fast clip. I tried my best to score a triple to make up for the misses, but connected with only two of my three shots. They were dipping and bobbing by the time I fired my third and final shot. Accidentally I do kill one flying like that now and then, but such hits are pure accidents.

Anyhow, I was proud of my two out of three score!

When I left the field and headed for home, I was still three doves shy of my daily legal limit. Although it was getting late, I thought of a farm stock pond that would not be much out of my way. Mourning doves often use these ponds as watering places, especially late in the afternoon.

The banks of the pond were overgrown with weeds and briars, making a fine natural blind to hide me from incoming doves. As soon as I was settled, two doves came swooping in. I doubled. Five minutes later two more came in, and I completed my limit for the day. "Three straight, that makes up for those four misses in a row," I thought to myself, as I headed for home.

To me, dove shooting is better sport when I have to earn my birds by legwork rather than sitting or standing in one spot all afternoon. Even if I could join shoots in and around lush feeding fields where the number of hunters is limited, I would choose jump shooting with maybe a bit of waterhole shooting thrown in for good measure. Besides, before the season ends, there usually is much more jump shooting available than there is feeding field shooting.

Doves raised in Tennessee are mostly shot by Tennessee hunters. There is a considerable migration of birds over state lines, varying sharply from year to year, but around 75 per cent of the mourning doves bagged in states south of the Mason-Dixon line are doves hatched and reared within the borders of the state in which they are killed. Migration is mostly southward from the hatching point, but even this is not always the case. For instance, doves banded while still unable to fly have later been bagged by hunters in Virginia. Tennessee hatched doves have been killed in Kentucky, and Georgia doves in Tennessee.

Around 95 per cent of the doves in the early season concentrations will normally be birds raised within a twenty mile radius from where they are concentrated. In central Tennessee the big early season concentrations are usually in and around freshly harvested millet fields, and fields of corn being hogged down. Later concentrations which have drifted down from states north of us, settle in and around buckwheat and harvested corn fields. Not many hunters go after these late season concentrations, and only a small percentage of the doves shot come from these late season concentrations.

Our brand of dove hunting requires no special equipment or type of clothing. Any dull colored hunting clothes will do, but you should avoid white. Early season dove shoot-

ing in the southeastern states calls for light summer weight shooting clothes.

For doves I like a 12 gauge gun. There's more shot in a 12 gauge high velocity load than there is in a 16 or 20 gauge load, and this means a denser pattern when the shot reaches the target. I prefer a pump or auto-loader with a 28 inch modified or full choke barrel. In dove shooting I never found a 30 inch barrel necessary and a 26 inch open bored barrel scatters shot too much. I like a pump gun with a rib; the late model gas operated auto-loaders are an improvement over the older recoiling barrel models. Their reduced recoil does not throw the shooter off on those snap shots.

THE NRA STORY

(Continued from page 18)

growing in popularity. By 1930, it was a well recognized and important part of the American target shooting game.

In 1936, the NRA "official" tournament plan, with official rankings and shooter classifications, spread organized target shooting far and wide. Up to this time, except for a few well established tournaments, NRA national competition was of the postal match variety, firing on home ranges and targets or scores exchanged by mail.

NRA pretty well ignored handgun shooters until about 1920. For a decade thereafter most pistol shooting was confined to the National Matches, although a real impetus came with the establishment of a special Police Division at NRA Headquarters in 1925. (Incidentally, NRA had conducted a poll of cities of 25,000 population or more, and found only three with anything resembling a marksmanship program for their officers!) With smallbore rifle marksmanship, pistol shooting grew into an important phase of the NRA program.

But the future hinged on "young America." In 1920, Winchester established the Winchester Junior Rifle Corps, which was so successful in attracting young marksmen that it outgrew the commercial promotion aspect in which it had been conceived. In 1925, Winchester offered the program to NRA, and the offer was enthusiastically accepted. Thus, the NRA junior program, a howling success from the beginning, began with some 200 clubs and 12,000 young riflemen. Since then, millions of shooters have followed this path, some to national and international fame.

And then, again, war clouds mushroomed over Europe. Sport shooting ceased, and the NRA turned its efforts to pre-induction marksmanship training. The following list summarizes just what was done, without cost to our government, during the war years:

- Conducted 2,862 pre-induction training classes, giving Army-approved basic small arms training to 158,956 men subject to the draft in 1,278 communities.

- Prepared and distributed to the States 2,000 Home Guard manuals.

- Prepared and distributed to war plants 2,000 manuals on Plant Protection.

- Prepared and distributed 2,000 manuals on the training and use of shotguns for home guard and plant units.

- Prepared and distributed 2,000 manuals on practical pistol training for plant guards.


- Prepared and distributed 20,000 manuals on the organization and instruction methods of pre-induction training schools and small arms marksmanship.

- Furnished master prints of 16 mm small arms training films to the Army Service

During the past two seasons I used nothing but No. 7½ and No. 8 shot for doves. Now that high velocity loads with No. 8 and No. 9 shot have become available, I plan to switch to 9's. Small shot, a dense pattern when the load reaches the target, plus a stiff powder charge to push the shot along, that's the ticket for doves.

If you like to hunt doves and have not been getting your share of shooting, you might want to try hunting them my way. Walking them up and snap shooting these fast-flying beauties is a lot more fun than shooting them while they are concentrated. At least, that's the way I like to hunt them and I manage to limit more often than not.

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Collected and turned over without cost to the British commission in this country more than 7,000 small arms for shipment to England for the arming of police and home guards following Dunkirk.

The NRA of today is a non-profit sharing corporation, incorporated under the laws of New York State. Its policies are established by a Board of (75) Directors, a 20 member Executive Committee, a President and Vice President (all of whom serve without salary), and three other officers who serve, on a full time basis, as the Executive Staff of the Association. Mr. Franklin L. Orth is Executive Vice President, Mr. Louis F. Lucas is Executive Director, and Mr. Frank C. Daniel is Secretary. These officers direct the 34 staff members and 144 other NRA employees.

The operations of NRA Headquarters are carried on by five Divisions: the Membership Division (promotes new memberships, maintains the records and service of some 460,000 individual members and of 4800 senior and 5500 junior clubs, and supervises the sales of government small arms made available to members through the Army's Director of Civilian Marksmanship); the Editorial Division (publishes "The American Rifleman," "Tournament News," and handbooks on many shooting subjects); the Program Division (competition and training); the Special Service Division (public relations, firearms legislative service, and hunting and conservation activities); and the Business Division (accounting, purchasing, sales and shipping, personnel, and maintenance of the fine Headquarters Building).

Most sportsmen know NRA as the governing body for target shooting. Few if any sports are so completely organized. NRA has contests for the youngster with his BB gun, and it selects and sponsors the marksmen who carry the U.S. emblem at the Olympic Games. Hundreds of thousands test their skill at events ranging between these two. Qualification shooting is a chance to try to match established scores for certain ratings. In 1961, some 400,000 qualification awards were issued, a majority of them to young shooters. Thousands shoot, indoors and outdoors, in a league program. Matches are conducted cooperatively for members of other organizations—VFW, YMCA, Boy Scouts, DeMolay, National Guard, American Legion, and the National Industrial Recreation Association.

Junior and college shooters have their own competitions, leading to national championships and All-American team honors. Over 1,300 summer camps for boys and girls hold NRA charters and have their own championships each year.

Shooters who want shoulder-to-shoulder competition get it at NRA sanctioned tournaments, each conducted under rules uniform from coast to coast. Each competitor shoots in his own class, and every shot he fires is recorded on his classification record card at NRA Headquarters. Some 130,000 target shooters rate this card record. They took part in over 2,100 NRA registered or approved tournaments in 1961.

Basic marksmanship training goes on in clubs on an informal basis. In addition, over 21,000 NRA certified instructors conducted about 600 formal courses for pistol and rifle last year.

A truly big job is the instruction which makes the hunter safety program so effective. New York passed a law in 1949 requiring youngsters under the age of 16 to pass a course in safe gun handling before they could obtain a hunting license. NRA was designated as an agency to provide instruction and issue the certification. Working with divisions of the National Education Association, NRA prepared course texts, instructor requirements, teaching guides, and other materials needed, called for volunteers from its membership and went to work. This training program made such eminently good sense that now 29 states and one Canadian Province operate similar programs, 14 requiring it by law. NRA has certified over 35,000 volunteer hunter safety instructors who have given this training to more than 1,200,000 young American nimrods.

One of NRA's biggest jobs is its legislative reporting service. Through this service, law abiding gun owners learn what threats they face from proposed prohibitions and controls. NRA has been the leader in the warfare which has kept the U.S.A. fairly unique among modern nations, holding to the idea of our Founding Fathers that an armed citi-



zenry is a national asset, not a cause for fear. Whether the scene is local, state, or national, it is the voice of the voter which is listened to. NRA advises and notifies its members, but its power to influence the final results comes only through the action of those members. Never hesitate to write, wire, or phone your own representatives direct.

NRA publishes much valuable material for its members in addition to "The American Rifleman" and "Tournament News." Handbooks, manuals, rule books, range construction plans, safety leaflets and posters, match programs are produced in volume.

Personal gun and shooting problems of members are handled through the NRA Firearms Information Service. Nearly 20,000 letters are answered annually, and about 200 new products in the shooting equipment field are tested and evaluated, and the results published.

The membership roster of the Association includes thousands of gun collectors. More than 65 collectors' clubs and associations hold NRA charters. Particularly affected by much legislation, this group, working within the NRA programs, has produced recognized condition standards for antique firearms, a Code of Ethics for collectors and dealers, a Code of Conduct for the specialized collector meetings, and a model bill of sale for antique arms. The collector exhibits are an outstanding feature of the gun exhibit which in turn features the Association's annual meetings.

Two important matters should be explained together, for the sake of better understanding. One is the National Board for the Promotion of Rifle Practice (and its administering agency the Office of the Director of

Civilian Marksmanship, the DCM). The other is the National Matches, Mecca for the aspiring marksman. The NRA plays a big part in both the program of the National Board and in the National Matches.

The National Board includes representatives of the Regular Armed Forces, the National Guard and other reserve components, Selective Service, the NRA, and the country at large. The DCM is the Army agency set up to carry out the Board programs, using annual federal appropriations. For the past few years, this appropriation has been a half-million dollars—the smallest designated item in our Defense budget.

Because NRA can screen and certify membership to the DCM, the Army issues military type arms and ammunition to clubs, sells surplus arms to individuals, and recognizes skill through qualification awards and competitions. The National Board is not intended to subsidize shooting as a sport; its purpose is to encourage marksmanship among able-bodied citizens as a part of this country's national defense ability. And here again is where Joe Taxpayer gets a break. The tasks are largely done by volunteers in thousands of local clubs all over the country. Imagine what it would cost to do the same job on a paid in cash basis! In fact, in many years, as much or more cash has gone into the U.S. Treasury (from the sale of surplus arms which might otherwise have been designated scrap) than has been appropriated by the Congress for the Board's program.

Now let's travel to Lake Erie's shores to take a look at the National Matches, held each summer on Camp Perry's famed ranges. Try to visualize 7,000 shooters, housed, fed and competing in some hundred events over a month's time. As a sporting event, what other sport can match it? Ranges stretching as far as you can see, for everything from BB guns, smallbore rifle, pistol, up to high power rifle matches. Banners, uniforms, bands, military brass, helicopters overhead, enthusiastic families, manufacturer and dealer displays, tons of medals and trophies, all

add unforgettable color.

But competition is only one side of the National Matches. The Matches provide incentives, for both the Services and civilians, to develop better guns and ammunition, better training methods, better marksmanship skill. And a tremendous feature is the outstanding small arms firing schools where those who attend get the finest teaching the Army can provide, at not a penny's cost. The idea is to form an elite corps of instructors who can return home and do their part to make America once again a nation of riflemen. Again, Uncle Sam has a real bargain.

Outstanding shooters may be among the chosen few to represent the U.S. at such international events as the World Shooting Championships, the Pan-American and Olympic Games. NRA represents American shooters in the International Shooting Union, governing body for the world's shooters. International shooting events are gaining prominence in this country with greater NRA efforts to bring home gold medals when our teams carry the Stars and Stripes abroad.

It has been a long and varied road since 1871. As NRA approaches the membership goal of a half-million members, it can point to new programs already keeping pace with this growth: rapidly expanding program for law enforcement officers whose sidearm may be their most effective life insurance; new services for members who carry guns into the hunting fields; public service campaigns in behalf of safety and sensible legislation; expanded efforts to solve the where-can-we shoot problem in these days of exploding cities and suburbs; and, of course, the tried and true programs popular with thousands.

A big milestone lies not too far ahead. Already, NRA officers are looking forward to a big birthday party in 1971, the NRA Centennial. Every American with any kind of interest in firearms should plan to share in that celebration, share in his Association's justifiable pride in a long and large record of service to both individuals and to this nation.

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We've just uncovered these genuine German-made Mausers with poor barrels, some pitting on receivers: interior of all actions guaranteed usable. A real find for progressive gunsmiths who recognize the built-in value of usable German-made Mauser actions at such low cost—Only \$16.95 for complete rifle. Ideal for rebarreling to 7MM or other popular calibers. (Mfg. by OBERNDORF/N).

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.22 Cal. AutoLoader—50 rds. (Rem.).....\$2.00
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These unique pyrotechnic devices are available for a limited time.



German 27mm flare gun complete good condition \$4.50



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A fast handling, lightweight carbine in good condition. Caliber 6.5 Italian. The ideal inexpensive "shooter," priced moderately at only \$8.95. Military Ammo (cal. 6.5) that shoots, \$7.50 per 100. 6.5 hunting ammo that shoots, \$3.95 per box of 20.

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only \$12.95

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A sporting rifle within the reach of all. Model '93 of the Famed Mauser system, sporterized as shown for lightness of weight and ease in handling. This 7mm Mauser comes ready to use. Condition re-blued and fair—\$12.95. Military ammo (cal. 7MM) that shoots, \$8.50 per 100. 7MM hunting ammo that shoots, \$4.25 per 20. Bargain Barreled Action; 7mm '93 Mauser, complete; good condition. Only \$9.25, plus \$1.50 p.p.d.

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Receiver, stripped, \$2.50; Block, \$1.00; Firing pin, \$1.75; Firing pin retainer, 50¢; Hammer, \$1.00; Main-spring, \$2.25; Receiver pins, 50¢; Trigger, 75¢; Trigger springs, 75¢; Trigger guard, \$1.00; Tang screw, \$1.00; Rear sight, \$1.75; Swivels, each, 50¢; Barrel bands, each, 50¢. Orig. .43 Spanish Ammo, (Some misfires), \$5.00 per 100; \$37.50 per 1000 rds.

HANDLOADING BENCH

(Continued from page 8)

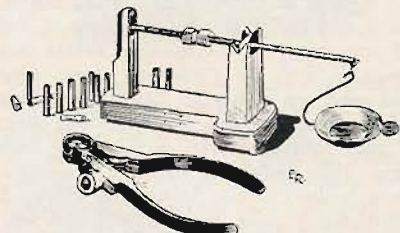
plate, to reduce leading and other troubles. SAECO's Lubri-Sizer is a good one that sizes pills in perfect alignment.

Weigh and sort castings to a plus or minus 0.2 grain. The heaviest ones are the best shooters. Light ones that look filled out may have internal air pockets or defects. Keep your alloy fluxed and stir often. Crummy bullets simply won't shoot.

Sloppy reloads won't equal factory fodder. Use one make and lot of cases. Trim to a uniform length in a trimmer such as the Forster. I trim to 1.142, which cleans up most hulls. Visually inspect the cut before deburring, looking at several cases at a time. Discard any with non-uniform mouth walls. Top quality loading dies are absolutely necessary for quality reloads.

For bullets smaller than .356, you'll need special tight dies, supplied by R.C.B.S. on special order. Buy in matched sets, specifying bullet type and diameter. C.H. Pacific, and R.C.B.S. make superb Tungsten Carbide sizers. Don't try to correct for sloppy sizers by using a heavy crimp! Reloads are best with bullets friction tight, uncrimped, or a lighter crimp than used in Western Super-Match loads. Be sure the case mouth is belled enough to prevent lead shaving. Don't slam bullets home! Seat s-l-o-w-l-y, especially if you seat and crimp in one operation with 3-Die sets.

There is practically no variation in different lots of Bullseye. The same is true of CCI primers, but I prefer the same lot of primers.



CCI's are not critical in seating depth, but .002 to .007 below the case head face is correct, using a flat face punch. Seat W-W makes .003 low, with a punch that fits the crown perfectly, and R-P makes .002 low. Primers with brittle compounds must be seated slowly and carefully. None should be slammed home.

Half-jacketed bullets are not quite the equal of very carefully cast, sorted and sized pills, but are superior to "average" castings. If you use them for targets, I recommend a .3555 diameter, with a slightly heavier powder charge. These soft swaged pills are the ultimate for Hi-V hunting and defense loads, of course. They perform better at higher velocity, and greatly increase the damage on the terminal end. The M52 is not a Hi-V pistol.

S&W's finest centerfire match gun will be a hit with shooters and on targets. To coin a pun, it gives target shooting a needed shot in the arm. The arm is a good one. It's ready to go right out of the box, without any custom smithing. The real slick bore will reduce or eliminate leading with cast bullets. Feed it a decent diet and it purrs like a kitten, thumping slugs in the bull with superb accuracy. Two high-scoring target shooters, R. B. Smith and exhibition shooter D. L. Cooper, gave it a workout and called it "A-OK in every way." So do I.

HUSK BULLETS



HUSK



HUSK BULLET



BORE EXIT

When fired, Husk is squeezed around bullet & both spin down bore. At muzzle centrifugal force expands Husk, increasing its drag, causing it to disengage from bullet proper. Husk Bullet's low sectional density in bore results in high muzzle velocity. With Husk removed, Bullet proper's high sectional density in flight results in high impact velocity & energy.

Husk Bullets are now available for .270 & .30 cal. etgs. Pointed, Open Point (POP) Hunting Bullets. DANGER: Bullet proper has stiff brass jacket for best accuracy & expansion. Use ONLY with Husk. When ordering, state bullet choice first, then Husk. For .30's: cal. 224/308—wt. 82/18; cal. 243/308—wt. 100/15; cal. 270/308—wt. 146/8. For .270's: cal. 224/277—wt. 82/15; cal. 243/277—100/12 grains. Send for FREE H.B. Ballistic Tables. .270 Win. shooting .224"—82 gr. bullet. Traj. 400 yds., 7.1". .300 H&H shooting 243"—100 gr. bullet. Traj. 400 yds., 6.7".

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ORDER DIRECT. Send \$3.95 for box of fifty Husk Bullets or box of twenty 30-06 H.B. Military Ammo. We pay delivery. Dealers Inquire.

MALTER ARMS COMPANY

224 WEST 34th STREET

NEW YORK, N. Y.

Ballistics of the .22 Rem. Jet

Some gun writers have written a lot of guff on the .22 Remington Jet ballistics. Some proudly pose with dead deer and bear they claimed to have killed with it. The gun is as sweet as chocolate candy for varmints and small game at long range. It's easy to pin-point hits, due to the lack of recoil. But it isn't for big game, except under survival conditions. The case is superb for untemperamental and low cost reloading, as listed in my October 1961 column. Original ammo is headstamped R-P 22 REM CFM, and production lots R-P 22 REM JET. The current bullet is much improved, and so are the cases, that have harder heads. The guns do not, repeat *do not*, give any extraction trouble with current ammo. They are superb varmint revolvers.

With current ammo, my 6" S & W .22 Magnum chronographs at 1879 fps. and my 8 3/8" at 2000 fps. The difference in factory figures and my own are normal for different guns. One is higher, and one lower. I think GUNS readers are too smart to attempt to bag big game with this dandy varmint and plinking gun. It wouldn't be sporting.

Here are the first revolver ballistics from the Remington factory:

	8 3/8" Unvented Test Barrel	8 3/8" Re-volver	6" Re-volver
Muzzle Velocity, fps	2460	2100	1800
Vel. at 50 yards	2100	1788	1538
Muzzle Energy, F.P.	535	391	287
Energy at 50 Yards	391	284	210

○ ○ ○

Cast rifle bullets are scarce. Good ones are made by CBH Bullets, 203 Rhode Island, N. E., Albuquerque, New Mexico. They also made handgun pills and swaged bullets. They are tooling up to produce moulds that are not available. This is good news indeed, since Lyman discontinued some old designs. Your dealer can obtain CBH bullets, or you can order direct from their free catalog.

○ ○ ○

Jurras Bullet Co., Box 163, Shelbyville, Indiana, make good half-jacketed handgun bullets in .357 and .429 diameter. Their .357's in 120 and 145 grain H.P. group as well as my own swaged pills, and expand well. They also do custom loading. Write for a price list.

○ ○ ○

A cardboard mailing tube is fine to carry targets in the car, so you'll have plenty of new paper if you go to the range in a hurry. Another good idea is to keep plenty of boxes of ammo in a sack, bag, box, or satchel, along with anything else you may need. Then you can grab your hat, gun, and satchel, and be on your way pronto when you have time for a little practice. Our shooting hours are precious, so don't waste a single minute!



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The most complete firearms product ever made. Cleans, Lubricates and Preserves in one application. A development of missile research. Prevents leading in shotguns. Now odor free. Will not freeze, oxidize, or evaporate. 5 oz. can \$1.39pp.

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• Handsomely blued 32" barrel, with patchbox.
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• 38" barrel, with ramrod.
• Weight, approximately 4 lbs.
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• 32" barrels, 20 gauge, complete w/ramrod.
• Walnut-finish stock with hand checkered grip, inlaid patchbox.
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ONLY \$39.50 2 for \$74.50
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• Barrel lengths from 35" to 50".
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• Handsome walnut-finish stock.
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RIFLE ONLY 2 for \$44.50 **\$24.50 EACH**

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These arms are . . . except for military stocks and sights . . . virtually identical in design to the world famous line of fine Mannlicher-Schonauer rifles and carbines currently manufactured. The design features the exclusive Mannlicher-Schonauer fully enclosed 5-shot rotary magazine, currently being used in all modern commercial models (which sell for over \$200.00). N.R.A. Good or Better. AMMUNITION: 6.5 x 52 M.M. Commercial Soft Point, non-corrosive \$12.50 per 100. \$95.00 per 1,000. Military target ammo, year 1980 mfg. by FN. \$6.50 per 100; \$55.00 per 1,000.

.30 Cal. U.S. M-1 Carbines

15 accurate shots as fast as you can squeeze the trigger! The only military carbine made that is a perfect lightweight sporter just "as is". Gas-operated semi-automatic. Specially selected in "as new" condition. Each unconditionally guaranteed. Military and sporting ammunition available anywhere.

ONLY \$69.50 Two for \$134.50

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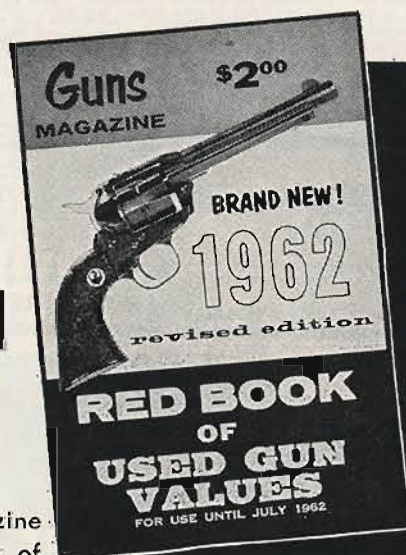
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**CLIP
COUPON
AND MAIL
TODAY!****LAST OF THE MOUNTAIN MEN***(Continued from page 23)*

try to get word to him at the Heart Bar Ranch where he's camped."

The distance to the ranger station was only about three miles. The Forest Service line was in working order. Ben Lilly was, we learned, still at the Heart Bar, and our message would be given to him. We, it was suggested, should go back to where we had found the tracks and Lilly would join us.

On the way back, Billy explained that Ben Lilly received a fixed sum from the Cattle-men's Association (and/or individual ranchers) for every lion killed on their range—this in addition to the bounty paid by the state. Recent bank failures had practically wiped out Ben Lilly's little nest egg he had been accumulating over his lifetime to tide over his declining years. "So he'll need this money," Billy told me. "He's not getting any younger."

But, Billy said, money had always been of secondary importance to Ben Lilly. Lion killing was his business, something he had to do, driven by some strange inner compulsion.

Back at the cabin after Ben Lilly met us and then left us in pursuit of the lion, I listened to a lot more Ben Lilly-ana from Billy and from Jimmie, his handsome, red-haired wife. If it could be said that Ben Lilly had any close friends at all, the Soules and the Tom Perrines would be first on the list. Both families were extremely fond of him, and did small errands for him when they went to town, such as bringing his mail, cartridges, depositing his checks, or whatever his small wants required. Ben Lilly went to town only on rare occasions, when something demanded his presence there.

I'd read about his start as a hunter in his youth in his native Louisiana, later in the Big Thicket country in Texas, then in Old Mexico. In these places, he'd been considered primarily a bear man, having killed every species, including a great number of grizzlies in Mexico. But then he had drifted up into southwestern New Mexico, and here in this great primitive area, set aside by the government as a wilderness domain, Ben Lilly had made his reputation as the greatest mountain lion hunter the west had ever known. Only he didn't call them lions, or cougars: to him, they were "panthers."

How many had he killed? Nobody knew, not even Ben Lilly. Some said the number would be close to a thousand. The Biological Survey and the Forest Service people will tell you that between five and six hundred would be a more accurate estimate. Lilly killed edible game of all species too, but never for sport—only for food for himself and his dogs.

Over the years, Ben Lilly became a strange, mythical, almost mystical character—a man who preferred the great solitudes and the company of his dogs and the wild animals of his domain to that of human beings; a man who read his Bible daily, yet who made killing his life's work.

Jimmie Soule said that, no, Mr. Lilly wasn't anti-social nor unsociable; it was just that he was extremely shy around people. Living in the wilds all his life had affected him in many ways. "But he's sat in our house and talked for hours at a time," she told me. "And don't you believe, like some people say,

that he's 'teched' in the head. Everything he says makes sense, and every word he tells you is the truth."

"Is it true," I asked, "that he won't accept food or any favors from anyone without paying for it?"

"Yes, it's true," Jimmie said. He won't offer to pay us or the Perrines—not any more. But he always pays for everything he gets from anyone else."

He'd paid them, too, when they'd first known him. He'd insisted on it, and they hadn't wanted to upset or offend him. "But one Thanksgiving day I had it out with him." Jimmie smiled as she remembered.

They'd been saving a fat wild-turkey gobbler that Billy had killed for the festive day, and that morning she'd ridden over to Mr. Lilly's cave-camp to invite him to share in the feast. He'd come all right, ate a huge dinner, and then, when he was ready to leave, he'd asked for a small piece of paper.

"I knew what was coming. He wrote out a check for fifty cents—to pay for his dinner. I'd had enough of this silly business. I just tore that check in small pieces and threw it in the fireplace. 'Mr. Lilly,' I said, 'we like you, and you're our friend and neighbor. But if you ever again offer to pay for a meal in this house, I'm going to ask you never to come back.' That settled it once and for all."

"Is there anything to the story I've heard that he'll never kill anything on Sunday?" I asked.

"Oh, yes," Jimmie said. "Not even for food. He won't even kill a lion. If it's Sunday and his dogs happen to jump a hot trail, he'll run it all right, and when the lion trees, he'll camp under that tree till Monday morning before he kills it. And don't think he doesn't know what day it is. He has his own way of keeping track. He knows all right."

Billy Soule cut in to tell me about Ben Lilly's checks. When the check book he sometimes carried ran out, he'd write them on anything that was handy—a piece torn from a brown grocery sack, a chunk of cardboard, the edge of an old newspaper or magazine, a small slab of wood, aspen bark, or anything else that would hold a penciled imprint. The banks in Silver City took great delight in showing Ben Lilly's checks to visitors and, of course, those checks were honored just as if they'd been signed by old John D. himself.

One thing the Soules cautioned me about was not to use swear words in Mr. Lilly's presence. He wouldn't censure you for it—he'd just excuse himself politely and walk away. And he'd ignore your presence from then on. "He isn't religious in a church sense," Billy said. "But he's a deeply spiritual man."

How, then, I wanted to know, did he reconcile such spirituality with his life's work, which was killing?

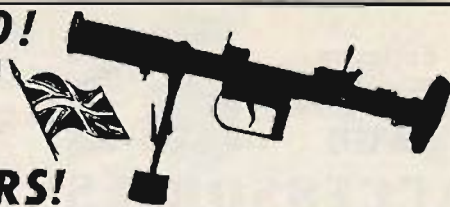
"That's one question we can't answer," Billy said. "Because we don't know. I doubt if Mr. Lilly could answer it either, since he looks upon all wild animals as his friends."

Jimmie heard a sound outside and went to the window. "Here he is now," she said.

The man coming toward the cabin, trailing five dogs, was wet to the knees from crossing and re-crossing the West Fork. He walked in a measured, rolling gait, his shoulders swinging from side to side with each step.

We hurried outside to meet him. He greeted the Soules affably, said "Howdy, son," to me, cupping one ear to hear our questions.

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Lightweight	1 1/4"	.600"	22"	2 lb. 6 oz.
Sporter-Weight	1 1/4"	.615"	24"	3 lb.
Med. Hvy. Wght.	1 1/4"	.700"	26"	4 lb. 4 oz.

TWIST: Ace Barrels come in standard twist as follows: Cal. 243, 257, 270, 7MM, .25-06, 280, 338 and 30-06, 1-10, Cal. 244, 250, 300 and 308, 1-12, Cal. 22-250, 220 and 222, 1-14.
F.N. Ace Barreled Action (White), \$72.50—Add \$5.00 for F.N. Supreme (Series 400) Action.
Fitting Service: Flaig's will fit any ACE Barrel to your action, stamp caliber, headspace and test fire for \$5.00. Returned f.o.b. Millvale, Pa., unless postage and insurance remittance is enclosed.

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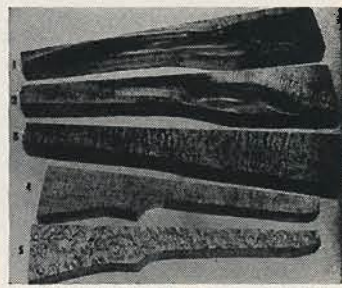
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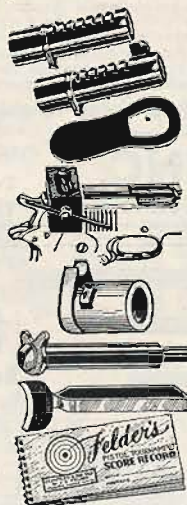
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His voice was soft and gentle, with just a faint trace of southern accent. His five dogs were a nondescript pack, lean and hungry looking, showing old healed scars and scratches from previous lion encounters. To the untrained eye, like mine, they didn't look like much. But they were typical Ben Lilly dogs, I was to learn, bred and/or acquired and trained by him, which meant they were the best.

So this, I said to myself, was the legendary Ben Lilly; a man who had achieved immortality while living. You could look off east of the West Fork and see the trail that led upward to Lilly Park, Lilly Mountain, Lilly Canyon, all named in his honor. This was the man who had guided an ex-president of the United States, the redoubtable Teddy Roosevelt, on a big game hunt; the man whose exploits, eccentricities, and idiosyncracies had been told and retold around a thousand camp fires; the man who'd been written up in newspapers and national magazines.

I don't know just what I'd expected; surely not a Davy Crockett type, with hard, piercing eyes, long flowing hair, wearing a coonskin cap, fringed buckskins, moccasins, carrying a 'long' rifle. This was the mid 1920s. But Ben Lilly appearance was not the man I'd visualized. For one thing, he was an old man. How old, no one could say, since Ben Lilly never told his age to anyone. But he was 65, at least, if not much older.

He was small, around five foot eight I'd say, with heavy, sloping shoulders. His blue eyes were not sharp and piercing, but gentle and kindly, paling with age. Along with his apple-red cheeks and long, gray, scraggly beard, they gave him the appearance of a benevolent, countrified Santa Claus. This was enhanced by the farmer-type bib overalls he wore (with two shirts underneath), and the misshapen felt hat, both slick with grease. A blue denim jumper, fairly new, hung straight down. There was a strong pungent animal smell about him, combined with the odor of wood smoke.

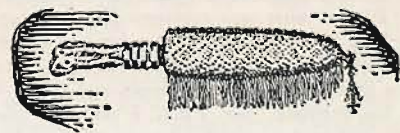
His shoes were ankle length heavy brogans, with soles at least two inches thick, whittled out of old automobile tires and nailed on over the leather. The heels were rimmed with iron bands—burro shoes, I learned later. They must have weighed ten pounds. Around his ankles, his pant legs were tied with heavy twine to keep snow, twigs, or small stones from getting into his shoes. (This simple, but effective, device I have used ever since, whenever I go afield.)

Over one shoulder was hung a battered home-made canvas bag, patched and grease-stained like his clothes. Later, I learned what was in the bag—an old Bible, now falling to pieces, a frying pan, an empty five

pound lard can for boiling, some corn meal, a couple of handfuls of jerky, a little salt, a folded strip of canvas, and a dog chain.

There was little of the hunter about him, except his knife and rifle. The knife was rough looking and crudely made, like all of his knives, but with it you could do anything from skinning a squirrel to cutting fire wood. It hung in its home-made sheath to a wide, latigo-leather belt across his middle. I took particular note of his rifle: a short-barreled .250-3000 Savage, with the bluing long gone, beaten up, the stock scratched and battered, the rear sight, U notched, held to the barrel by windings of copper wire.

But despite Ben Lilly's droll appearance, there was about him an aura of quiet dignity. You knew instinctively that this primitive man was in his rightful element here in this great primitive forest and that, in these surroundings, he was a master.



Jimmie suggested that Mr. Lilly come in by the fire and dry out and have something to eat. But he politely declined, saying he'd had a heavy breakfast and wouldn't be hungry till much later. And the wetness bothered him not at all.

Yes, he'd got the lion all right—three of them, in fact. He had the skins of the female, and the tiny ones of her two unborn cubs inside that canvas sack. He told us about it briefly. The trail had led to the den, a crevice of rocks high up on the north side of White Creek. When the dogs jumped her, she didn't give them much of a run, since she was logy from the heavy feeding that morning, and all of the water she'd drunk. "Females with with cubs," he explained, "drink an awful lot of water. She treed in less than half an hour." There was no boasting, no gloating; in fact, Ben Lilly seemed a bit sad about doing what he had to do.

Jimmie came out to say that supper was almost ready. Lilly said he'd better be getting on, but Jimmie wouldn't take no for an answer. She insisted he stay not only for supper, but to spend the night.

And so, finally, we all sat down to a mouth-watering meal of frijole beans seasoned with generous cuts of salt pork, and roasted deer ribs, deer liver fried with bacon and onions, and for variety a mess of mountain trout that Jimmie had caught in the big pool just below the cabin that day.

After supper, I finally got the chance to ask the questions that had been on my mind. I asked him the things I'd had strong doubts about that morning—just how the tracks could reveal to him so much about that lion's age, condition, and movements.

"Well, son," he said. "Sign is like an open book, if you know how to read the book." With quiet patience, he explained how he knew the age and sex of the panther by the shape and size of the tracks. He knew that she was carrying young, because the tracks were more deeply indented on the outside—something like a person trying to walk bow-legged—to lessen the jar on the cubs.

This further proved my ignorance, I admitted, since I didn't think any animal carried young this late in the year—almost mid-winter.

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"Panthers do," Lilly said. "They breed and have their young the year around. One month is as likely as the next. Mostly two at this time of year—sometimes more. . . . Now, let's see if I can take care of the rest of your questions. You saw me smell and taste that deer hair, then smell the tracks?"

"Yes, sir, I did. But I didn't know that it was deer hair."

"That deer hair came from between her toes," he said. "The smell and taste of it told me that deer was fresh killed, so it was a natural thing to guess that she'd eaten that mornin'. There was fresh deer scent on the tracks, too. An' the way she was movin', in no hurry to speak of, showed me she wasn't huntin', just travelin'; so she knew that part of that deer kill was left behind where she'd killed it, and she knew just where to go when she got hungry again. Does that explain it, son?"

I made a hasty mental apology for doubting Ben Lilly's sign reading talents that morning. I knew now that I'd seen a master at his own specialized work. "Yes, sir, it does—except for one thing. Just how did you know where you'd find that lion, like you told us?"

For the first time, I saw Ben Lilly smile—a half shy, secretive little smile. "Well, son, there's some things you can't put into words to make things clear, so I'll just say it like this: There's a little more to knowing about wild things than just readin' sign. You got to know their habits, how they think—and they do think, make no mistake about that. I guess the rest of it just comes from experience, and this is somethin' I've had a little bit of—so I knew, son, where that panther was goin' because I knew that's where she lived."

"Thank you, Mr. Lilly," I said. "I've learned a great many things today." Now I knew why everyone called him Mister and not Ben. It was an accolade that came to him naturally.

"Aren't you goin' to ask me, if panthers scream? Everybody else does." His smile was wry.

"I've read they did," I said. "I assumed it was true."

"They don't," he said. "At least, I've never heard one do it, and I've spent quite a spell among 'em. They spit and make snarling noises like a tom cat, but that's all."

Ben Lilly got to his feet. "Bedtime," he said. He thanked Jimmie for a fine meal, excused himself and went out into the night.

"Where will he sleep?" I asked, knowing there were extra beds in the cabin.

"On the ground," Billy said, grinning. "He likes plenty of fresh air. You couldn't pay him to sleep in a good bed in a warm room. He says it isn't healthful."

"But what about blankets?" I wanted to know. "It's going to be freezing tonight."

"That won't bother him," Billy assured me. "He never uses blankets. They smother him. He'll just build himself a little fire at his feet, lay down on that piece of canvas he carries, and with his dogs curled up around him, he'll be as snug as a bug in a rug. That's the way he does it."

Next morning at daylight, I went out to call him to breakfast. He wasn't there. There was nothing to show he's been there, except the remains of a small fire, and a faint, yet pungent animal smell. Ben Lilly was gone.



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HONEY UP THAT BEAR

(Continued from page 21)

illustrate this feeding and shedding progression. The first, a luxuriously-pelted chocolate-brown, we mistook for a grizzly at an 800-yard glassing. He was puttering around, moving in a sleepy daze, and only occasionally nipping off a mouthful of glacier lilies.

At 70 yards, after a hustling stalk, guide Anton Rosicky said, "He's a black, but isn't he a beauty? Better take him!" So I did, using a .270, and busting him through the lungs with a 160 grain Barnes handload.

The second black—straw-colored on the bulk of his body, with dark face and feet—Anton advised against. But I was so charmed by the contrast between his pelt and that of the previous bear, that I whacked him, at 175 yards. His voracious feeding in a patch of skunk-cabbage should have warned me his pelt would be on the shabby side, which it definitely was. His head, mounted in a snarling pose, still hangs on my wall. But Anton was dead right about the rest of his pelt; it was ratty with shedding.

Fall bears are a far different sport. They're then sniffing up the most fattening foods they can find, chiefly sugar-sweet berries and starch-rich roots of pea-vine and other food-storing vegetation. Even the rock-chucks and other rodents they then dig out are eaten for the sake of the fat they've laid on for their own winter of sleep-drugged hibernation.

Except for the gut-fat, the meals of other species of big game they then come upon are mere protein-rich fillers. But where their preferred fattening foods are in abundant supply, you will frequently find bear dung literally loaded with berry skins, pits and seeds, and the remains of tuberous food-storing plants.

This is the time of year when honey is a bear's delight. Such rich fare is easily transmuted into another layer of their hibernation-intended blanket of fat. Give an autumn bear a whiff of honey and it takes an Act of Congress, or a hunter's bullet, to keep him from attempting repeated raids on such a delicacy.

Burton Immel, who is a regular member of "Buck" Allemand's annual hunting camps for elk, moose, deer, sheep, and bear, knows all about this bear mania for honey. He lets the other hunters go hanging off in the deep wilderness in their pursuit of other species while he contrives shrewd medicine for bears.

One year, when 46 out of 47 of Buck's elk hunters filled their tags, and all moose permittees got their bulls, Burt collected a bear rug—within 200 yards of camp. Burt took it all very modestly, as befits a shrewd and secretive operator. But bagging that bruin was no happenstance.

Autumn hunting seasons, and the woods and mountains that bear frequent, don't furnish the best environment in which to bait bears. There's just too much activity on every hand, too much travel, too much shooting, and too many spots where bears can latch

onto the dressed-out innards of myriad big-game critters, or even the later-dying cripples which hunters wound and can't find.

But you can, if you know how, honey up bears in direct proportion to the bruins' abundance. Even when the bear population in any given area is on the lean side, you can get at some of the few that are available. It takes considerable patience, and some shooting confidence, but far less bear-hunting know-how than any other lone-handed method I know.

First of all, natural honey odor doesn't carry to any great distance, even to bears' choke-bored noses. The natural supposition is that you'll have to honey up bears by planting your bait within no more than long rifle-range of an area which bears frequent, a maximum of 400 to 600 yards, with due allowances for prevailing wind direction.

I don't mean to imply that you'll have to shoot your bear at any such outlandish ranges. I'm merely speaking of the distance



your prospective bear rug might smell a bait of natural honey—if the wind was right. Actually, if your setup is correctly made, your shooting should be at from 50 to 150 yards, depending on the nature of the local terrain.

Any woodsman who has ever robbed a bee tree, and then simmered down his loot on the kitchen stove, knows what a sweet and permeating odor arises during the operation. Melting down the masses of honeycomb, so the floating beeswax can be skimmed off, can often be smelled for a city block or more, even by human schnozzles. Just how far that odor can reach out to tantalize a sweets-hungry bruin is anyone's guess. But it must be a positively fantastic distance.

Thus, if you set out to honey up a bear, here are some tips you can use according to your own ingenuity. Pure strained honey of the fresh or "green" class—which means that it contains no admixture of comb beeswax and is of the previous season's gathering—casts its odor according to its temperature. A can or bottle of this stuff, which you can't smell further than a foot away when it's cold, will permeate a sizeable valley with its odor when it is brought to the simmering temperature. But, if you spill some of

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the stuff—on a hot stove, a hot rock or even into a dying campfire—its odor reaches away out yonder.

My personal preference is to use hunks of a mashed down and half-melted comb of honey for bear bait, or at least a goodly hunk of it. When that combination of beeswax and honey is hotted up, its enticing odor is positively commanding in its invitation. It has fully four times as much authority as any honey which has been completely strained of its beeswax.

Take great care that you don't heat your bait to the point where it is consumed, when all you have is a temporary odor. As soon as that dissipates, though it may interest any bear whose nostrils it reaches, the befuddled bruin has no way of following the slip-stream of scent back to its point of origin. All such a burn-up of bait accomplishes is to temporarily confuse any bear that detects it, though he soon forgets that amid other food-promising scents.

Some sportsmen, whose chief interest is bear, make a number of heated-honey bait sets, each of them located so it may be approached from an overlook, thus giving the hunter the finest possible shot at an investigating bear. Others make only a very few such setups, placing them in areas that other hunters rarely reach. Either way, honey-baited bears are active about the premises for much longer daily periods of time, thus increasing chances for shots.

There are several ways of putting such baits into enduring operation. Obviously, if you casually plant a can or bottle of honey just anywhere, the first bear to reach it is going to have himself a snack, thus permanently destroying its allure. The longer the bait can be made to last, the more effective it is, and the more bears may accept its invitation.

There are several ways of heating the comb honey to strengthen its range. One is to place a few spoonfuls of it in a tin can, then heat it with Heat Tab or similar pellets, or even with a tiny tin of denatured alcohol. If properly placed, on the high branch of a sapling by a suitable length of wire, a bear may be tolled to the baited area several times before he actually finds the bait and hits upon the expedient of bending over the sapling to get at the bait.

Perhaps the best way is to put a goodly bait of honey in a small tin bucket, with cover and bail. Several holes can be punched in the lid to allow entry of air and exit of heated-honey odor. The bottom of the bucket should have only one hole, thus permitting the heated honey to drip onto a pre-placed slab of rock or even on a down log. Finally, a fine wire is tied to the bail, tossed over a high branch the bucket hauled up, and the wire then tied off to another tree or branch at a distance of several yards.

The perforated bucket, especially when artificially heated or adroitly placed where it will be hit by direct sunlight, will continue to slowly drip its honey bait on the

pre-arranged "honey lick." Any time the hunter wants to rehear the bait, all he needs do is untie the wire, lower his bucket, and give its contents a thorough warming, then haul it back up out of reach of any visiting bear.

Black bears may climb the tree from whose branch the bait-bucket is suspended but they won't dare to trust their weight on the branch which actually supports the bait. And I've never known a bear smart enough, or owning keen enough eyesight, to trace the fine-wire tie-off leading to another tree. The only time that is apt to happen is when the tie-off is placed so low that a bear might blunder into it, or if the hunter gets some honey on his hands and thus on the tie-off wire.

I suggest such an enclosed bucket, and a suspending wire instead of string, for two very good reasons: first, the enclosed container prevents chipmunks, squirrels or birds from getting at and eating up the bait; second, those same pests can't readily snip off even a fine wire, which they could if the bait bucket was hung on a string.

A suspended bait-bucket also has the advantage of serving as a location point for the hunter approaching the baited location, especially during the dim light of dawn or dusk. Once located, even with binoculars or rifle scope, he can scan the premises from a reasonable shooting distance. Sitting over such a bait for a half-hour or so, or at least as long as shooting light is available of an evening, is never a mistake. Game may be nearby and temporarily hidden but, if the hunter waits in alert silence, may emerge to resume its search for the honey bait.

It is common knowledge that bears, blacks especially, frequently come into hunting camps when every hunter is beating the brush for other game. Such bruins are almost invariably drawn by the scent of unburned or unburied garbage, opened cans of food, or the especially tantalizing odor of bacon or ham. This merely proves that human scent has only a very slight influence on the behavior of bears. They take their cues far more from human activity than from scent. They listen and smell, trying to keep track of disturbing hunters. When they detect danger, they usually attempt to move out of the line of hunter travel. Only occasionally, when badly spooked, do they head right down a trail at their best speeds; and this gives rise to some of the hairy stories hunters tell of bears shot while "charging!" Charging, hell; they were merely trying to get away from other hunters they'd sensed on the yonder side of some hill! The wry comment of an Alberta guide—where the shooting of sow bears with cubs is strictly, and properly, forbidden, unless human life is at stake: "It's perfectly amazing how many charging sows are killed by being shot in the butt!"—about sums up most such claims.

Jack Sampson, the Nebraska all-bear hunter, won't hunt any hoofed, antlered or horned big game. His passion is bears, both blacks and grizzlies, and he has a score of

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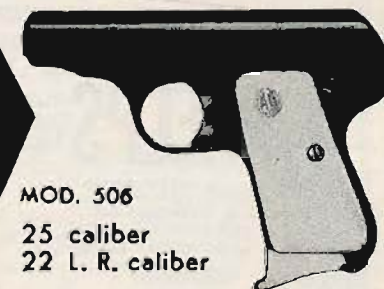
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rugs made from the best pelts he has taken.

"Only once was I in a tight with a bear," he told me. "That's when we'd glassed a big boar grizzly on a mountain side and were stalking him. Enroute, we saw a grizzly sow and two well-grown cubs. They didn't know we were around, so they were traveling too slowly to suit the fast stalk we wanted to make on that boar. So the guide yelled at this three-some, to speed them out of our way. That turned out to be a mistake. The sow, instead of taking off, whirled and, in perfect silence, came at us as hard as she could run, with the cubs trailing her by some 40 yards. In spite of the guide's yells, she never slowed or changed her course.

"So, when she filled my scope, still coming at top speed, I shot her. The bullet caught her in midstride and spun her on her rump. Before she regained her balance, I shot her again. Both bullets got her in the heart; one from in front and the second on a broadside hit, to put her down for keeps.

"We finally decided that what had made that sow so proddy was the fact that both

of her lower tusks were broken off and badly abscessed. They were undoubtedly very painful, kept her from eating properly; which, when added to her natural maternal protectiveness toward her cubs, touched off her already hair-trigger temper."

Jack doesn't experiment with various rifles and sundry loads when bear hunting. He uses a proved combination: a .30-06 rifle on which he has done a lot of ornamental engraving, plus decorating the stock with ivory carvings; and, for ammunition, 220-grain round-nosed, factory loads suit him just fine. His pet shot is the heart, which has produced a remarkably high percentage of one-shot kills on bears.

Jack Sampson is a hunter's hunter, and a fine and sensible game shot. He may or may not be capable of putting five slugs into an inch group at 100 yards, but he knows more about bears and bear hunting situations that have never been printed "in the book." And if you don't think he can shoot well enough for all practical purposes—look at his bear rugs!

AN AFRICAN BATTERY

(Continued from page 19)

separator of men from boys. It has almost gotten to the point where no self-respecting hunter can show up at the hunting lodge unless he is the owner of a Magnum. To do so without a Magnum is to invite ridicule, to say nothing about remarks about the horse and buggy days.

At the risk of alienating myself with large segments of the citizenry, this Magnum business is not all that it is cracked up to be. The average Magnum shines in one particular field: the taking of the larger species of big game at extreme ranges of 300 yards plus. The question of how many men can hit an animal at 300 yards plus is one conveniently omitted from the recommendations. To a dedicated rifleman who fires hundreds of rounds a year—to the point where he knows exactly what his gun can do and is impervious to recoil—a Magnum can be a real asset under certain, isolated circumstances. To the casual hunter and ten-shot-a-year character, it is a major curse, since its weight will tire him and its recoil will cause the one thing most conducive to inaccuracy: flinch.

In 1954, I was in Kenya on safari. I did 90 per cent of my shooting with a .270. I lost no animal shot with it. Of eighteen head killed with it, sixteen were one-shot kills. The two that were not dead after one shot were hit too far aft and would not have been killed with a .600 Jeffery. I made a lousy shot at an eland with a .375 H. & H. Magnum, again too far aft, and had to chase that poor beast about ten miles in a Land Rover. The size of the rifle did not make up for inadequate shooting.

Many of you have read John Taylor's excellent "African Rifles and Cartridges." Taylor did nothing but hunt for well over 30 years. He is a far-gone gun nut, and he tried just about every caliber made. As one reaches the end of his book, one cannot escape the fact that he killed most things with most rifles successfully. The gimmick is that he put his bullets where they would do the most good; and this, given reasonably adequate cartridges, is really the answer to the whole question.

Karamojo Bell killed over a thousand elephant with a 7 mm Rigby Mauser; not a Magnum, just the old 1892 model 7 x 57. True, Bell was an expert rifleman and also a surgeon and knew his anatomy. True, also, that elephants were relatively tame in his day and could be found and shot in the open. He had the best of opportunities to place his shots properly. That is one extreme. The other is the duffer who may be confronted with an elephant in thick brush; and, nowadays, this is the much more common of the two. In the first place, there are always more duffers than experts; and secondly, elephants have become smart and are more wary than they were.

Thus, a heavy rifle is indicated for elephant for the average person as well as the expert. This "heavy" may be described as being of at least .40 caliber and throwing a bullet of at least 400 grains at a muzzle energy of at least 4000 ft. lbs. This is what is recommended by the old African hands for elephant, rhino, and buffalo as well as Asian gaur or sladang. The criterion of such a rifle seems to be the question of whether it will surely drop an elephant with a shot anywhere in the head, even though the brain be missed. Informed men seem to believe that the foregoing specifications represent the minimum which can be counted upon to do that. This puts the low limit at the level of the .404 Jeffery for magazine rifles and the .450-400 for single and double rifles.

The most popular magazine rifle today is probably the .416 Rigby, but it is being seriously threatened by the .458 Winchester, which is a masterpiece for the purpose for which it was designed. The most popular double rifle is the .470, followed closely by the .500-465 or, as it is often called, the .465. The ballistics of the former are identical with those of the .458. The .465 is fractionally less powerful, but no elephant would know the difference.

Because of Indian and Sudanese legislation, the British produced a great many elephant cartridges. Rigby came out just before the turn of the century, 1898 or 1899, with

(Continued on page 60)

... the GREAT NEW
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MUZZLE
LOADING
RIFLE

Muzzle Loading Shooting Kit

IDEAL FOR HUNTING, PLINKING,
TARGET & MATCH SHOOTING—
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You Get—ready to shoot immediately

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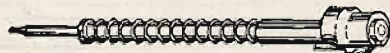
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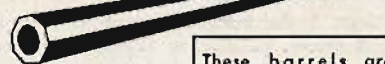
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assured. 15/16" across
flats. 32" long, ONLY
\$14.85 + 85¢ — OR
FULL 42" long . . .
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For use in rebarreling Winchesters, Martins, Spring-
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1 turn in 22". 15/16" across flats. Full 32" long
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MUZZLE LOADING BARRELS

FULL 48" long—.45 caliber, rifled 1 turn in 56",
straight length blanks, 1½" O.D. These barrels
are rifled—(NOT buttoned or broached) which is
the only way to obtain proper groove depth. Eight
grooves make for super accuracy. ONLY \$17.95 plus
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SAME, ONLY 32" LONG.....\$9.95 plus 95¢ pp.

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straight rifled lengths, 32" long, 1½" o.d. 1 turn
in 22", beautiful 4 groove rifling, used for re-
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barrel blanks—.22" long, 19/32" on shank, ¾"
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NEW REMINGTON MATCHMASTER BARRELS, for use
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NEW BRED A MARK II AUTOLOADER made of X-Ray inspected modern chrome titanium steels and other alloys, doubly reinforced at all stress points. Basic design features interchangeable barrels and parts throughout, 12 and 20 gauge 3" Magnum chambered autoloaders, complete disassembly



without tools, interchangeable chokes, left-right safety, adjustable (20 gauge) stocks, automatic cut-off, and hard-chrome lined barrels. Hand-finished and checkered stock has comfortable short-radius pistol grip. The magazine of both 12 and 20 gauge Breda guns has capacity of four 2 3/4" cartridges or three 3" cartridges, plus one cartridge in chamber. From: Dakin Gun Co., San Francisco, Calif. U.S.A. Sales and Service: Simmons Gun Specialties, Inc., 504 East 18th St., Kansas City 8, Mo.

RELOADING EQUIPMENT CATALOG No. 61, revised 1961 edition, available from RCBS Inc., P. O. Box 729, 605 Oroville Dam Blvd., Oroville, Calif. An accurate, informative aid to shooters. Accompanied by illustrations such subjects are treated as rifle and pistol reloading, rifle and pistol dies, shell holders, primer feed, Jr. and A-2 Presses, bullet jackets, and shotshell reloading.



7x50 B MODEL recently added to binocular line of Carl Zeiss, Inc., New York, N. Y. Designed for wearers of spectacles and sunglasses, new instrument offers full field of view while sighting through it with spectacles on. 7x50 B has field of view covering more than 400 feet at distance of 1000 yards. Compared with a standard binocular the model for spectacle wearers requires larger distance between exit pupil and eyepiece. Increased pupillary distance can only be obtained by special newly-designed eyepieces as found in 7x50 B, 8x30 B and 8x50 models. Zeiss 7x50B retails at approximately \$209.00.



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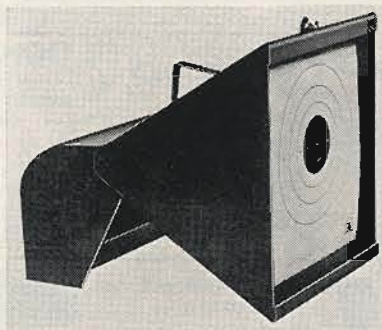
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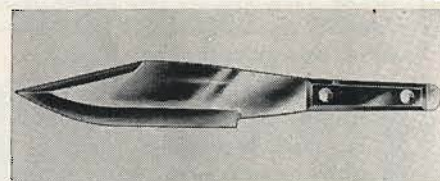
able, high density polyethelene jar, it can't spill, break or spoil. No waste involved. Suggested retail price \$1.98 from Jet-Aer Corp., Paterson, N. J., manufacturer of G-66 complete gun treatment, stock finish, waterproofing for fabric, leather and boot weatherproofing, and deer lure.



MODEL '49 SADDLEGUN, single shot, Martini type action .22, developed for America's shooting youth, introduced by Ithaca Gun Co., Ithaca, N. Y. Retails for \$19.95. Chambered for .22 Rimfire: Short, Long, Long Rifle, Long Rifle Shot, BB Cap, and CB Cap. Overall length 34 1/2" with 18" round tapered barrel. 5 1/2 lb. weight. Stock and forend of finely finished American black walnut. Automatic rebounding hammer safety hand operated, independent of lever-action. Genuine leather saddle scabbard for gun available for \$5.



DETROIT BULLET TRAPS electrically welded, of simple design with no loose parts. Said to be practically indestructible, with proper use should last indefinitely. Following models available, each suitable for a specific range: Junior, Standard, Master, Super, Magnum, Wildcat. Patented "Venetian Blind" type traps custom-designed for large police, military, club ranges. Prices and information on all models available on request from Detroit Bullet Trap Co., Arlington Heights, Ill.



BOWIE-AXE KNIFE handcrafted of tough, specially tempered spring steel. Rugged, dependable tool for cutting, chopping, throwing. Razor sharp, highly polished, a balanced throwing knife, tough enough to take shock without breaking. Sold on money-back guarantee, mailed postpaid with sheath and knife-throwing instructions included. Dimensions: 13 1/2" overall, 2" wide, 3/16" thick. Weight: 15 oz. Price \$11.00. Order from Tru-Balance Knife Co., 2110 Tremont Blvd., N.W., Grand Rapids 4, Mich.



A 1962 CATALOG entitled "It's Good Business To Do Business With A Specialist" has been issued by Sports, Inc., 5501 N. Broadway, Chicago 40, Ill. Catalog consists of 96 pages of leading lines of guns, shooting equipment, police equipment. Fine source of reference and information for gun buyers. Write direct to Sports, Inc. to secure your copy.



RADIO-GLASSES with smoke-green lenses ideal for hunting and all outdoor activities. Self-contained item, also available with clear lens. Wearer simply turns switch and can enjoy utility of a sunglasses-radio combination. Private listening now possible, at no risk of disturbing others. Radio-glasses guaranteed for 90 days from date of delivery. Batteries available everywhere radio batteries are sold. Manufactured by: The Yabushita Company, Tokyo, Japan. U.S. Distributor: The House of Edwards, 5003 San Jacinto, Houston 4, Texas.

WITH Guns



"HAVE GRILL WILL TRAVEL" jumbo size Porta-Grill ideal for camping, picnics, and indoor cooking. 10½" x 14¾" cooking surface makes grill popular outdoor equipment. Easy to carry, easy to use, easy to store. Tripod legs provide stability on any surface. Removable fire pan handle. Enameled fire pan adjusts to 3 positions, rinses clean in seconds. Manufactured by General Products Co., Box 1304, Rome, Georgia.

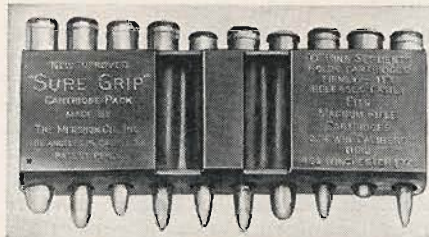
GUN AND REEL OIL SPRAY gives 4-way protection for guns and all sporting equipment. Prevents rust, lubricates as Nitro Powder Solvent. Removes water, moisture, dampness. Spray gets inside gun barrels and hard-to-get-at areas. 6 oz. can \$1.39 each; 12 oz. can \$1.89 each, postpaid. From Mitchell Chemical Co., Inc., Wampus Lane, Milford, Conn.



1 S 20 D HAND ANEMOMETER is precision wind speed and direction indicator. Measures approximately 11" long and 3" in diameter at scale, weight 2½ lbs. Instrument may be used by all outdoorsmen interested in wind determination. Wind direction is indicated from 0 through 360° in 5 degree divisions with letters at the cardinal points. Readings are accurate to within one knot. Built-in compass permits ready orientation for proper wind direction. Further information and catalogs available from Kahl Scientific Instrument Corp., P.O. Box 1166, El Cajon (San Diego), Calif.

STING-STOPPER, new liquid formula that stops pain and irritation caused by insect bites developed at laboratories of Southwest Products, Inc., San Antonio, Texas. Antivenom, poison-neutralizing, and water-soluble liquid comes in pocket-size plastic bottle. Emulsifying agent breaks down fats and oils in skin, allowing penetration of Sting-Stopper's anti-venom to work fast.

"SURE GRIP" CARTRIDGE PACK. Unique patent pending design allows each passage to expand independently to facilitate variety of cartridge calibers. "O" ring segments hold shells securely, releases them easily when desired. Protects shells from loss or damage. Makes them conveniently available



for instant use. Made of durable, flexible molded rubber formulated to work equally well in cold or heat from -65° to +240°F. Special design features allows wearer to secure cartridge pack by slipping any belt up to 1½" wide through center of cartridge pack and belt loop. Improved Cartridge Packs lightweight, come in red, brown or black colors. No. 2 Model (holds 12 shells) 220 Swift through 358 Win., while No. 3 Model (holds 10 shells) 264 Win. through 458 Win. calibers. Priced at \$3.00. For complete information write: Mershon Co., 1230 So. Grand Ave., Los Angeles 15, Calif.

HOW TO RELOAD SHOTGUN, RIFLE & PISTOL SHELLS



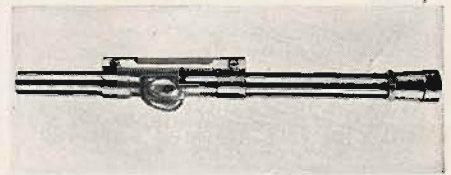
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BY GEORGE LEONARD HERTER AND JACQUES P. HERTER

"HOW TO RELOAD SHOTGUN, RIFLE AND PISTOL SHELLS" by George Leonard and Jacques P. Herter is new free booklet containing valuable information for sportsman who wants to reload rifle, pistol or shotgun shells. From: Herter's, Inc., RR No. 1, Waseca, Minn.

NEW MODEL of 4X Banner riflescope announced by D. P. Bushnell & Co., 2828 East Foothill Blvd., Pasadena, Calif. Turret design with precise reticle adjustments features large, easy-to-read, precision engraved dials, increases accuracy of economy-priced model. Parkerized, full-size, standard 1-inch steel tube with exclusive Bushnell satin finish assures rugged durable service. Cushioned lenses provide maximum shock resistance, coated with low-reflection, hard-coating for high luminosity. Lenses neoprene sealed to keep out moisture and fog. 4X Banner with built-in, rugged toughness priced at \$37.50.

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(Continued from page 56)

his famous .450 Nitro Express. This fired metal cased bullets weighing 480 grains at something over 2100 f.p.s. The boys were quick to realize that this was far better medicine for elephant than the old 10, 8, and even 4 bore rifles with which elephant had previously been taken. This bullet could be relied upon to penetrate from almost any angle and, in spite of pachydermous hides, the boiler room could be reached. So there was rejoicing in the land, and everybody who could afford it acquired a .450 Nitro Express.

Then there were political difficulties in India and the Sudan, and it turned out that the natives had some old, English army rifles which also happened to be of .450 bore. For fear that these old muskets could digest the newer .450 ammunition, with modifications, the .450 was banned from India and the Sudan. The result was that every gunsmith of note in the Empire promptly brought out a new cartridge of some caliber other than .450. Thus, we have the .465, the .470, the .475 and the .476. At the business end they all say the same thing, and it was a ridiculous situation. In the past few years, the great British firm of ICI, which now manufactures most of England's ammunition, dropped a great many useless calibers. Many fine old rifles will be starved for ammunition, but it was an economic necessity to do this.

Anybody considering the purchase of a double rifle would do well to check availability of ammo and would probably be well advised to consider either the .465 or the .470 as being the most durable on the list. Let me repeat that our .458 will do exactly what either the .465 or the .470 will do, and will probably do it better due to better bullets. The .458 bullets have the edge as far as sectional density is concerned, and the .458 solid is made of steel and has already acquired a great reputation.

Never underestimate the .458 Winchester. A gigantic amount of thought, money and research went into this load. The boys at New Haven decided to produce the world's finest big game rifle—or should I say biggest game rifle? They acknowledged the unquestioned efficiency of the .450 to .476 family of British calibers, which produce from 4900 ft. lbs. of muzzle energy to about 5100 ft. lbs., with bullets ranging from 480 to 520 grains. They took a leaf from Rigby's book, deciding that the only material with which to make a bullet of positive penetration was mild steel, plated with gilding metal to make them easier on bores and to prevent rust. They put this package in a 2.5 inch case so that ordinary .30-'06 length actions could be used with their short—by comparison with magnums—bolt throws.

Accidentally or on purpose, they produced one of the world's most accurate large bores. I have had more three-shot, 100 yards groups which went under an inch than over. It is a tack-driver to any citizen who does not mind the quite substantial recoil.

In any case, no one can go wrong with a .458 as a biggest game rifle. If you want a double, fine; but do not fool with the cut-rate doubles. The famed reliability of the double—and this is fact and not fiction—is based upon Britain's best quality rifles. On these is lavished the most painstaking workmanship of any gun in the world. They cost about \$2,500.00 and, if that is what you want, that is what you must pay for a new one.

The last time I checked up, it took months to get a Holland & Holland which, together with the Purdey, is the best in most people's opinion.

The double versus the magazine for dangerous animals is an age-old argument. After much thought, much reading, and some experience with both in Africa, I can only say that I have recently sold a .470 Rigby and a .465 Holland & Holland and I have had Griffin & Howe make me a .458 Winchester with a straight, recoil-absorbing stock and a 22" barrel. I thought long and hard about this, particularly because the Holland & Holland was "best quality." This decision was reached on one basis, sound or otherwise—inherent accuracy.

I shot an elephant at 30 paces, a rhino at 20, and a buffalo at about 50. The rhino charged, so I did not have much time to react one way or the other until later that night. I had a lot of time to consider the other two, however, and I can report that 12,000 pounds of elephant looks awfully big at 30 yards. My heart pounded and my palms were dripping with sweat. My white hunter, with no regard for my health or sanity, kept urging me closer to this great beast. It all came off all right but, in retrospect I kept wondering if all that had been really necessary; and I came to the conclusion that it had not. Why not stay about 75 or even 100 yards away and slip him one in the brain with a really accurate rifle, from a comfortable rest over an anthill or a fallen tree? The more I thought of this, the better I liked it. Hence, the above-mentioned trade.

There is a lot of history behind this close-range shooting. In the latter part of the nineteenth century, when such shooting giants as Sir Samuel Baker operated, elephants were shot with very large bore, black-powder rifles of 10, 8 and, sometimes, 4 bore. The round balls or conical bullets were of lead. Their sectional densities and ballistic coefficients were nothing to write home about. They had poor penetration on elephants, and shed velocity and, hence, energy, very fast. Sights were crude, and the two barrels of a double rifle did not always group together. The average British sportsman seldom, if ever, sighted his rifle in, since this was a task to be performed by the "lower classes." This may sound cock-eyed, but it is true.

The net result of all these variables was that the early elephant rifle was a very short range gun. The hunter had to be within 20 or 30 paces from an elephant to insure bullet delivery to the small anatomical areas which are 100 per cent lethal.

With the coming of smokeless powders and improvement of double rifles, this range could have been greatly extended had it not been for the continued aversion of the usually well-heeled sportsman to sight in his rifle. This was still a task for the menials. The result was that very, very few elephant hunters of the amateur variety ever knew where their rifles were grouping, and thus they still had to get close to be sure of hitting vital areas. For obvious reasons, the professional hunters insisted upon it. Their toughest assignment is following up wounded game.

The average American of today who goes to Africa is apt to have a more than nodding acquaintance with the rifle and its capabilities. He knows what sighting-in means, and he does something about it. In this man's hands, the scope sighted, large-bore, magazine

rifle is the most lethal weapon ever used against the world's biggest game. Broadside, an elephant's brain measures at least 4 x 8 inches. With a .458 Winchester, capable of minute of angle accuracy, having a mid-range trajectory over 100 yards of 1.1 inches and over 200 yards of 4.8 inches, it is hardly necessary to close in to the point where the heart pounds and the palms perspire.

If all your hunting is to be done in extremely heavy bush where a very fast second shot may save your life and where you are on your own with no white hunter to back you up, then, and then only, can I see the advantage of a double rifle. It is a romantic gun, steeped in tradition. It is the most beautiful of all firearms—to my eyes, at least. It is to Africa what the Model 1873 Winchester and the Colt .45 are to this country; but in this enlightened age, it is not for me.

Sighting-in these wonderful, big brutes need not be the fearsome ordeal it is often made out to be. Pad your shoulder and your fingers, and plug your ears. This does not make you a sissy. It just makes you sensible. A man takes a 12 gauge shotgun and fires it 100 times or more at trap or skeet in an afternoon, and never feels recoil. If he takes that very same gun and shoots deliberately and with aim at a patterning board, he'll be screaming bloody murder after a dozen shots. Same thing with big rifles. When you are shooting at an elephant in your shirtsleeves, you will neither feel nor hear the rifle. It will be like a .22 rimfire. At the target range, unless you pad yourself, it is unpleasant to say the least. With padding, it's a breeze. I use a bath towel folded to about 8 x 10 under a quilted coat, and I wear gloves with the trigger finger exposed. This way, a box of cartridges is a pleasure.

Finally, on the subject of elephant rifles, please shoot 100 rounds here at home and 3 in Africa, rather than the other way 'round. Everybody will like you better for it.

Your plains rifle, believe it or not, can be anything from a 7 x 57 Mauser to a .375 Magnum. In all honesty, I, personally, do not believe that African game is any harder to kill, pound for pound, than is North American game—provided the physiological condition of the game is similar. In other words, if you spook an African animal, the adrenalin gets to work and he takes a lot of killing. But this is also true of all North American game.

As I said before, a "Magnum" is a fine thing in the hands of an expert rifleman who wishes to kill large animals at extreme ranges, 300 yards and over. I found, however, that the average shot in Africa was not all that far. It is not close-range shooting by comparison with hunting white-tails in the eastern forest of the United States. Neither is it long-range shooting by comparison with hunting antelope in the deserts of Wyoming. For me, it was 150-200 yard stuff for the most part. The only longer shot I had to make was on a wounded Grévy zebra at 376 paces. At the first shot from a hand-loaded .270, his hind quarters went down, and with the second he collapsed completely.

Two friends of mine, Jim Converse and Melville Haskell of Tucson, Arizona, recently returned from a safari in Africa. They each shot about twenty head of plains game. The average range for Haskell was about 145 yards. They each killed all but two head with

one shot. Jim used a handloaded .280 Remington, and Melville used a wildcat 6.5 mm with a case the capacity of which was about that of a .30-'06.

Assuming the rifle to be accurate and properly sighted, and assuming it to have 2750 ft. lbs. of energy at the muzzle, and also assuming your bullet choice to be reasonable, then I say take the rifle you are most familiar with and can shoot best. And again I say: It is not *what* you hit 'em with; it is *where* you hit 'em. A .25-35 in the boiler room is better than a .600 in the gut.

Finally, I most emphatically do not believe that you need .33 or .35 caliber rifles to kill African plains game. Rifles of this caliber and power are useful in the isolated event that you want to kill 1000 pound animals that are running away from you, as they often do when you jump them out of their beds in heavy timber. This is not the rule in Africa. In fact, it is a rarity. If, for some odd reason, you found yourself in that position, then just grab your .458. For the rest of your shooting, a 6.5 mm to a .30 caliber will be more than adequate, assuming accuracy and the energy figure I have mentioned.

The .22 rimfire is a wonderful gun, anywhere and any time. It puts meat in the pot. In Africa, it is particularly useful for those big Guinea fowl that are just out of shotgun range.

A two-shot shotgun will be a blessing to the bird shooter in Africa. The sandgrouse and the francolins provide some of the world's best shotgunning. You shoot the former over the water-holes morning and evening. For about twenty minutes, each time, it is fast and furious, and you'll need a couple of boxes of shells. The francolin grouse provide a day-long shoot for those interested. And they are both delicious to eat, as are the Guineas.

I do not believe that the famous .375 is necessary in the African battery as recommended above. It is the greatest all-round rifle in the world, probably, and it is the one I should take were I restricted to one rifle. However, you won't be needing it for the soft-skinned animals, and it is a little light for the big ones—although all *can* be killed with it.

You can get as silly as you want about this. You can take a .22 Hornet for dik-dik, a .257 Roberts for antelope up to 300 lbs., a .270 for 400 to 500 lbs., a .300 Weatherby for—oh, you name it. Believe me, the four I have mentioned will do the trick and my main hope is that everybody who reads these lines will have the chance to go on the greatest hunt on earth—before it is too late.

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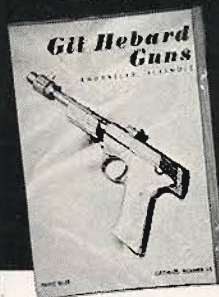
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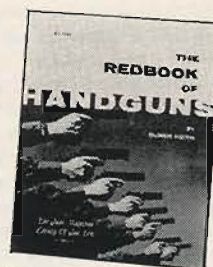
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BIG, FAT, AND RIMFIRE

(Continued from page 33)

A more common .58 rimfire is the musket cartridge marked "F.V.V. & Co." (Fitch Van Vechten & Co., also of New York City). When these specimens are available, they go for about \$20. The F. V. V. & Co. marking will also be found on the Spencer rimfire series.

The last round shown in the photograph was made by one of the U. S. arsenals. I don't know why they had to mark the caliber on the head, since it seems rather obvious that the big rimfire would only go in the chamber of the .58 caliber arm. Obviously, the ways of the government have not changed much.

That winds up the variations of the .58 rimfire musket cartridge. As stated before, it is my opinion that all known variations of the round are shown. Years ago I heard of a specimen with the headstamp "58 Musket" but so far I have not seen a specimen, a photograph, or even a reliable report.

It was previously mentioned that the Gatling guns were chambered for the .75 and one inch rimfire cartridges. These rounds were experimental. The Gatling was originally made for a special .58 rimfire cartridge.



Two variations of W. Mont Storm rimfires with different crimps.

It seems that there were two versions of the gun and cartridge. One was a shorter version for a lighter weight "mountain Gatling gun" and one was longer, for the "field Gatling." "Mountain Gatling" rounds are uncommon but are available from dealers in collectors cartridges.

Another unusual rimfire cartridge is the round that was used in the .58 calibers Joslyn carbine, in use during the Civil War. This .58 Joslyn was replaced by the .56 caliber Joslyn that utilized the .56-56 Spencer cartridge. The .58 Joslyn was to be found in box lots not too many years ago. More recently one has to scratch around to find one and if you find it in the hands of a cartridge dealer it will cost you ten bucks or more.

But not all rimfire cartridges have been identified. This "unknown" round is close to the aforementioned "mountain Gatling," but its dimensions are such that it is considered not to be a variant of Gatling cartridge. The rim and head diameters are definitely oversized from the Gatling and it's hard to believe that it would chamber in the same arm.

Unknowns are a problem and the rimfire

field is full of them. About the only solution to the problem is for the collector to become thoroughly familiar with all of the texts on the subject and regularly read the periodicals that contain pertinent information. After a while the collector will gain something of an understanding and will be able to judge for himself to a marked degree.

The cartridge next to the "unknown" rimfire (see picture) is a specimen of the .58 W. Mont Storm musket conversion. In checking the five Mont Storm patents of which I have records, it was found that the patent of July 8th, 1856 (No. 15,307) concerns itself with the musket conversion. I said "five" patents because W. M. Storm held five firearms patents. He also held two cartridge patents. Since little is known of W. Mont Storm the seven patents having to do with arms and ammunition are listed here in chronological order.

Firearm, charger for—W. M. Storm, New York, N. Y., May 2, 1854 No. 10,846

Cartridges, Applying fire extinguishing—W. M. Storm, New York, N. Y., Oct. 9, 1855 No. 13,660

Firearm, Revolving—W. M. Storm, New York, N. Y., March 11, 1856 No. 14,420

Firearm, Breech-loading—W. M. Storm, New York, N. Y., July 8, 1856 No. 15,307

Firearm, Breech-loading—W. M. Storm, New York, N. Y., June 14, 1859 No. 24,414

Cartridge Skin—W. M. Storm, New York, N. Y., Oct. 29, 1861 No. 33,611

Firearm, Breech-loading—W. M. Storm, New York, N. Y., Nov. 5, 1872 No. 132,740

It is reported that the U. S. Government purchased the rights to alter muskets under Mont Storm's system in September of 1858. A relatively small number were so converted, and today those few remaining alterations are choice collectors items.

Another cartridge shown is an example of the B. S. Roberts .58 rimfire for musket conversions. The pictured specimen bears the Winchester raised "H" headstamp—a mark that came into being after most of the altered musket systems had been abandoned.

Research has shown that the patents for breech-loading firearms that were held by B. S. Roberts of the United States Army were as follows:

No. 36,351 Sept. 23, 1862

No. 52,887 Feb. 27, 1866

No. 90,024 May 11, 1869

The earliest patent was the one that covered the alteration of a musket to a breech-loader.

(Continued on page 65)

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BOX B, K-Z RANCH • MIDWEST, WYOMING

(Continued from page 63)

The Roberts system was more commonly made as a centerfire arm. These .58 Roberts rimfire cartridges are rather scarce, usually bringing about \$35 or \$40.

The last specimen is the long, or "field Gatling" as mentioned earlier. This collector's cartridge is also available from dealers, usually for about \$10.

There are two variations of the .58 Mont Storm rimfire that are not at all similar to the one described earlier. The second round in the picture is a .58 Mont Storm that bears two slash marks on the base and has a rather normal roll crimp to the case mouth. As can be seen in the photograph, the first specimen has a heavy gathered crimp to the ball and only one of the dashes or marks on the base. The second cartridge has a perfectly plain base and an almost indiscernible case mouth crimp. It is possible that we are

splitting hairs. Maybe it's silly to gather variations that are so close to one another, but I don't think so. In the first place, we may learn in time that these variations were made by different manufacturers. And even if they prove to be insignificant, it's still fun and I got these cartridges when they were two or three dollars apiece—now they're fifteen or twenty dollars each. Who's silly?

Even though this article has included rather fancy prices and values, the cartridges described may still be found in out-of-the-way places for a fraction of their real value. The cartridge collecting game is still young, and there is yet plenty of room for the beginner. The values of the better specimens will probably increase steadily as time goes on. This is as it should be. There are just so many historic rounds available, and as the collectors rank swell, the values will go up.

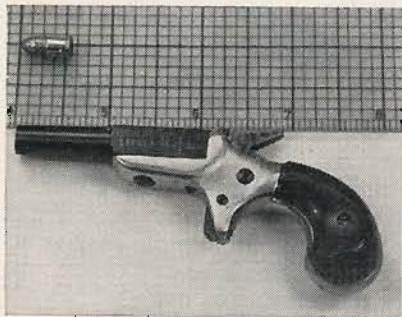
GUN RACK

(Continued from page 6)

With the left hand, slip in the item to be measured, gently release the spring tension with the right thumb and presto, here is your reading. This gauge is available from Quadra-Continental, 113 Queen Anne Ave., Seattle 9, Washington.

Little Ace

This little single shot .22 derringer looks like a toy, but is a long way from being one. We have test fired the gun with .22 BB and CB caps and with .22 short ammo. The latter ammo gives surprising accuracy and, incredible as it may seem, it also kicks a fair bit. Shooting the Little Ace with CB or BB produced some fair groupings on the targets, but the gun is, of course, not designed as a target grade gun. It is however, despite its smallness, a firearm and thus should be handled with the care required.



Unloaded, the gun weighs 3 ounces, measures 3 3/4" overall. The frame is solid bronze, the barrel is blue steel and rifled to standard .22 caliber specifications. Our gun, serial #125, has made the rounds of our friends and invariably, after firing it, the reaction was, "Where can I get one?" A nice plinker, a conversation piece, and we have used it to scare some pesky squirrels off the bird feeding stations—what else can one ask for \$12.95?

Mossberg 500

We recently reported the findings of our field tests on this gun. Mossberg has just announced the introduction of the 500M Combination. In this "barrel combination" the shooter gets the basic Model 500 equipped with the Special barrel for 3" and 2 3/4" Magnum shells, plus his choice of

any one of the four regular barrels. As we pointed out in our report on this gun, the top safety is its most outstanding feature, with the easy interchangeability of barrels running a close second.

Mossberg has done shooters a great favor with the introduction of the 500, this "combination" is a real fine deal, since the shooter can buy two of the four available barrels at less cost (this does not include the Magnum barrel, by the way) than gun plus one extra barrel.

We have used the Model 500 extensively for pattern checks and testing of handloaded shells that go through various experimental tools. Some of these shells won't function in some of our other guns, but the Mossberg digests the various hulls with the greatest of ease.

Scoped Sheridan

Sheridan Silver Streak and Blue Streak (pneumatic) rifles have long been noted for their accuracy, being capable of driving their neat, waisted, 5 mm pellets into half-inch groups out to 20 yards; so the idea of putting a scope sight on an air rifle wasn't as outlandish as some might think. A rifle with such high accuracy-potential deserves first-class sighting equipment, and we suspect that the Sheridan sales engineers were thinking of those somewhat-over-teen-age eyes that make that kind of accuracy impossible over iron sights.

Sheridan came up with the answer in the form of an Intermount (\$9.75) and a Weaver B4 scope (both together, \$19.50) which completes the picture of a precision tool for basement practice or backyard plinking. (Rifle with scope and mount, \$46.00)

The development, simple though it sounds, presented some problems, and the solutions reached are (let's face it) not perfect. The Intermount's rear base positions directly over the loading port and has been cut through to permit injection of the pellets. This makes loading a rather slow and tedious procedure. The mount it attached to the rifle with four tiny screws (1/8" long, 1/10" diameter), which are simply too small to bear hard tightening. Scope and mount on our test rifle remained firm throughout our test firing.

The test rifle came with an Intermount



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which set the scope snug against the breech housing. We immediately encountered a problem in cocking the action. The bolt handle lifts up against the scope, so that it is impossible to get a firm grip on it, and the finger-tip hold available is just not good enough to work the action, which (as with all pneumatics we have tried) is pretty stiff. Sheridan next sent us an alternate Inter-mount which places with scope considerably higher, and cocking became much easier. When you buy yours, be sure you get the high mount.

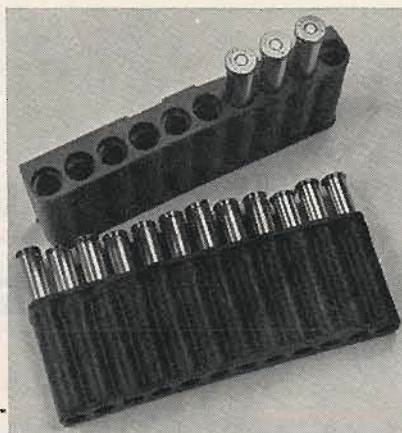
The Sheridan is activated by compressed air, the compression produced by operation of the hinged forearm. One stroke gives you enough power for indoor target practice. Additional strokes add power—and require more power also. A second stroke is easy enough, the third requires some effort, the fourth is really stiff. But accuracy at base-ment ranges is not, so far as we could tell, improved by increased compression. Sights should be set, of course, for the power used, and uniform lever action should be maintained for each shot.

An unusual safety feature is the top-of-tang thumb safety which must be depressed during trigger pull.

Sheridans are fine, precision rifles for fun-plinking or serious target practice, and the scope adds icing to the cake. For yourself, or for that boy or girl you're teaching to shoot, this outfit will provide years of enjoyment. And some of the things that drew criticism from a crew of weary testers may just be assets, after all. It takes some strength and some know-how to make it function—which is in itself a safety feature.

Cartridge Packs

The Mershon Company has hit the market with new and improved Sure Grip Cartridge Packs. In contrast to the older model that we have used for a good many years, this new version is flat on both sides and is not affected by temperature changes. The older



The open O rings hold ammo tight in all weather, field conditions.

models, it may be remembered, became quite stiff in very cold weather as most rubber goods will, and cartridges were then hard to remove. The new Sure Grip Cartridge Packs have a series of staggered "O" rings and they are equipped with internally placed rings that permits the use of the packs for several cartridge sizes.

The soft rubber packs are very pliable and

hold the cartridges safely. We tested two of the packs with various cartridges in the "O" rings, staggering the small and large cases at random. Cartridges were held securely, even when the pack was turned upside down and shaken, and use of the packs at freezing temperatures did not affect their pliability or their ability to hold ammo securely. Each pack is equipped with belt loops that will accept wide belts such as used on hunting pants, and the two sizes available—there are more to come—are clearly marked as to the cartridges they will carry and hold. The Packs will be available in four sizes, from the .25/20 Winchester center-fire right up to the .460 Weatherby Magnum.

Super Deluxe C Tool

This new Pacific Super Deluxe C tool is built along the conventional lines of all C tools, but has several advantages. The Pacific auto primer feed is most certainly a boon to the fellow who turns out large masses of reloads, and we particularly liked the fact that the tool can be converted easily from up-stroke to down-stroke. Although the down-stroke is, in most cases, the best choice by far, we found it advantageous to use the up-stroke every so often. Changing the tool's stroke direction takes only a minute, thus making it extremely versatile for the loader who requires a two-way tool.

Pacific is now working on still another tool for the handloader who produces large amounts of pistol ammo. A report on this tool will be made as soon as we have put it through its paces in our ballistics laboratory.



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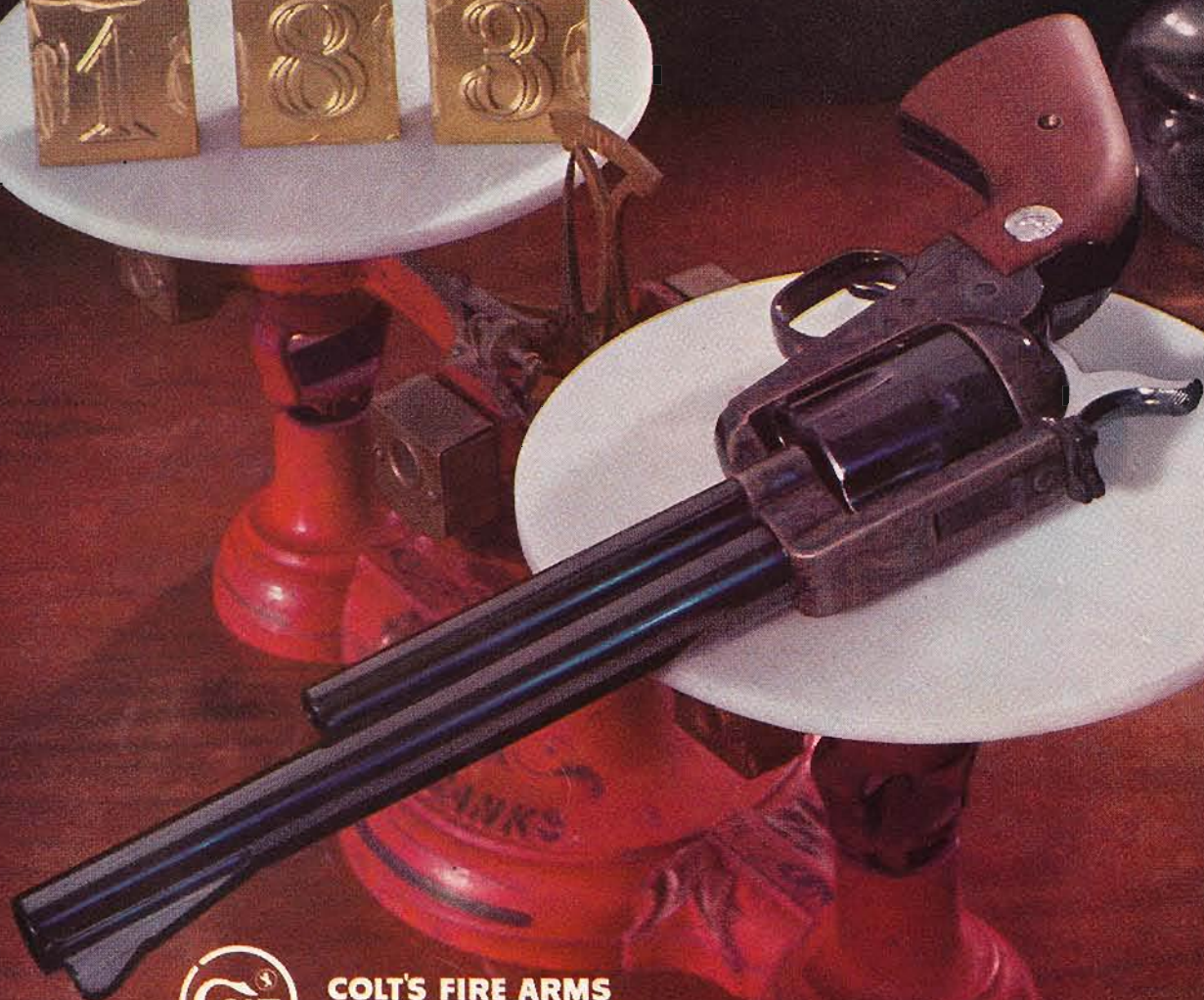
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