

Precision SHOOTING

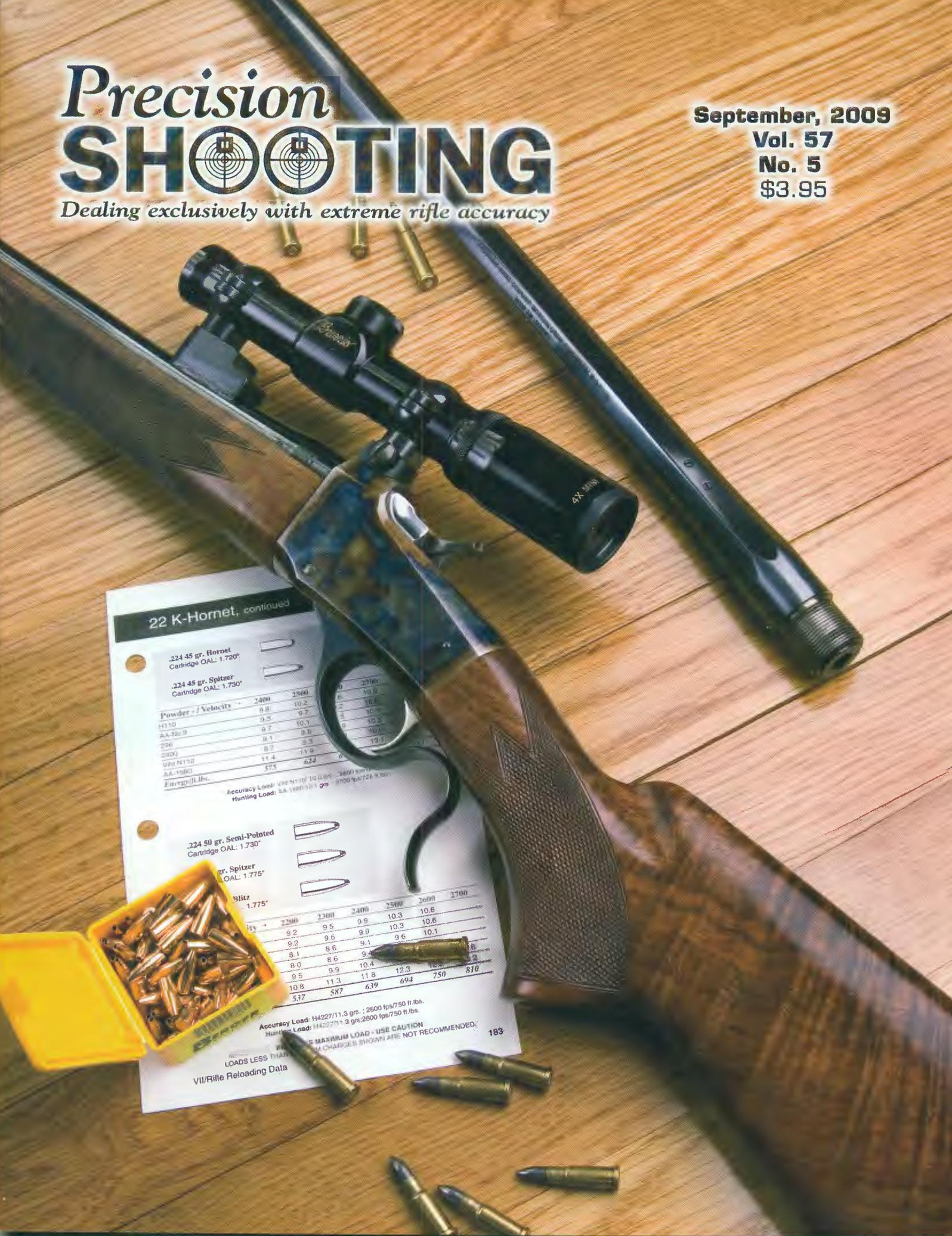
Dealing exclusively with extreme rifle accuracy

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\$3.95



22 K-Hornet, continued

.224 45 gr. Hornet
Cartridge OAL: 1.720"

Powder - / Velocity	2400	2500	2600	2700	2800
H370	9.8	10.2	10.6	11.0	11.4
AA-700-B	9.5	9.7	10.0	10.3	10.6
236	9.7	10.1	10.4	10.7	11.0
2300	9.1	9.6	9.9	10.2	10.5
UPU #2170	8.2	8.3	8.4	8.5	8.6
AA-1280	11.4	11.9	12.4	12.9	13.4
Energy (ft.lbs.)	575	624	673	722	771

Accuracy Load: 440 NITRO 10.0 gr. 2600 fps/750 ft.lbs.
Hunting Load: AA-1280 11.9 gr. 2700 fps/724 ft.lbs.

.224 50 gr. Semi-Pointed
Cartridge OAL: 1.730"

.224 50 gr. Spitzer
Cartridge OAL: 1.775"

Powder - / Velocity	2200	2300	2400	2500	2600	2700
H370	9.2	9.5	9.9	10.3	10.6	11.0
AA-700-B	9.2	9.6	9.9	10.3	10.6	11.0
236	8.1	8.6	9.1	9.6	10.1	10.6
2300	8.0	8.6	9.1	9.6	10.1	10.6
UPU #2170	9.5	9.9	10.4	10.9	11.4	11.9
AA-1280	10.8	11.3	11.8	12.3	12.8	13.3
Energy (ft.lbs.)	537	587	639	694	750	810

Accuracy Load: H4227/11.3 gr. 2600 fps/750 ft.lbs.
Hunting Load: H4227/11.3 gr. 2600 fps/750 ft.lbs.

MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN THESE CHARGES SHOWN ARE NOT RECOMMENDED.

VII/Rifle Reloading Data

THINGS SEEN AND LEARNED AT THE 2009 SUPER SHOOT

BY JOHN W. LEWIS

I very much enjoy going to the Super Shoot each year. In no way do I labor under the illusion that I will be a threat to the serious competitors. Unfortunately, I lack the requisite number of brain cells and focus necessary to reach the top of the competition heap. Tony Boyer won this shoot handily. It was obvious to anyone monitoring the standings during the shoot that Mister Boyer was on a mission. I cannot comprehend how anyone can maintain this level of skill and concentration over such a long period of time (both during a big match and over the years). I say



Kelbly passive ejector (shown extended) installed in my Teddy action.

this honestly because by nature or genetics, I am very scatterbrained. After the Army, I spent most of my adult life fixing mainframe computer problems. I was good at it. I really believe that my wandering thought process was instrumental in helping me to do that job. This way of thinking also helps in solving fixture problems in the machine shop. That wandering thought process does not help me compete in a match.

Getting back to Mister Boyer, his presence at any match is very much like the presence of a great white shark circling a group of lifeboats. Everyone keeps the Mark I eyeball on him (because you had very well better).

There is always a cadre of other top shooters at this match with a very good chance of winning. Most of us regular people are pretty sure we won't. Why do we go? I really enjoy the competition, meeting folks with a common interest, seeing new things, and shopping for goodies. What follows is what I saw and learned.

Kelbly's, Inc

I seem to remember someone describing a new ejector for the Stolle action prior to the Super

Shoot. One of the first people I bumped into at the Kelbly facility was Jim Kelbly. I enquired about the existence of this passive ejector and was advised that it was indeed a real modification to certain old actions and a feature on new actions. Jim took me to the shop and turned me over to Tom Griffin. Tom showed me an example he had just finished. To say the least, I was amazed with the clever design of this ejector. I had been fooling around in Autocad off and on for some time trying to come up with something like this without any real success. The cleverest part of the Kelbly design is a short pin attached to the bolt stop with the pin parallel to the bolt body but without actually touching the bolt. As the bolt is drawn fully to the rear, the pin contacts the rear of the exposed ejector and the cartridge is consequently expelled out through the loading port. The distance of the cartridge expulsion is determined by the amount of force used in pulling the bolt rearward to the stop. If desired, the bolt can be pulled partially leaving the cartridge case in the action held by the extractor. This design works perfectly with both long and short cases and never dings the mouth or shoulder of the case. The spring-

loaded ejector, common on most actions, does not work very well (if at all) with short cases. For whatever (probably subconscious) reasons, I just don't like the spring-powered ejectors. This bias probably comes from shooting the Springfield rifle quite a lot in vintage military matches. Most of the time I don't want to eject the case and I like the option to expel or not expel a case that a passive ejector gives me.

Jim Kelbly told me that this modification would cost \$100 and pointed out that if the job was boogered up (this technical term is used both in machine shops and nasal clinics) that they would replace the bolt at no charge. Such a deal we have for you. I asked if they could do this modification on my Teddy bolt before the shoot, and they (Tom and Jim) told me it would not be a problem. I handed my bolt to Tom and made my way to the firing line to set up equipment for checking out a new barrel on a different rifle. Before I was fully set up, Tom appeared with my completed bolt. Shazam! (I think that is what I said) I don't believe more than one half hour had passed. The work was flawless. I am sure I could not have gotten the bolt body into the fixture, let alone finish the entire job, in that amount of time. Thomas Griffin is now known, at least in my mind, as "Excellent Tom". As an aside, I think people you like should have a nickname. A lot of people in the service in my day carried one whether they liked it or not. One young man (very bright fellow) in one of my units was referred to as "Dirtball". No one, including Dirtball, knew why. In my son's Marine Recon unit one of his buddies (who was not named Tom by his parents) was called "Spicy Tom". This very fine nickname came from his liking of a tomato sauce in the rations. This would

have been a good nickname for Tom Griffin but it was already taken.

The bolt performed perfectly during the following matches allowing me to actually make a run or two during a lingering condition.

The few good groups I shot were done in this fashion. I don't believe that there is another shoot in the country where full

Continued on next page



Thomas Griffin eating breakfast while chained to his workstation. Recognizing his wonderful addition to my rifle, he is now known to me as "Excellent Tom".

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Things Seen And Learned At The 2009 Super Shoot

Continued

time gunsmithing occurs during a match. Pretty cool.

Harley Baker

At the Chippewa match that precedes the Super Shoot, I happened to be placed two positions to the right of Harley in the bench rotation. With my newfound ejector, I noticed that my brass was bouncing off of the bench top when I brought the bolt handle back smartly. My solution for the day was a rolled up towel placed along the edge of the bench top. Some of the cases escaped over the top of the rolled towel anyway. I noticed that Harley had a folding wooden fence that worked very well. To be honest I think that it took me about a day and a half to notice this. I copied Harley's design with some Lowes one quarter by four-inch poplar. For a hinge, Harley used tie-wraps and drilled holes that made a lot of sense to me. This gadget folds up

and takes up a very small space in my shooting box. I later had Harley sign my copy giving me the only "Harley Baker Signature Model" in existence. Later in the week he tried hard to tell be about reading wind flags but failed utterly to penetrate my head with any knowledge. I did, however go away from this discourse with a big thought. Harley stated that to get good at this sport a person must go to a lot of real competitions — there is no substitute to shooting regularly against really good competitors. Harley achieved excellence last year so I think he knows what he is talking about. In my area most of the shooting is long range so I had better concentrate on that type of shooting if I am ever going to improve. Harley, by the way, is an incredibly nice guy and I am glad he has done so well.

George and Vera Carter

At the aforementioned Chippewa match, and later at the Super Shoot, George showed me some gadgets he had made in his shop up in Canada. It turns out that George turns brass

the same way I do. He made a tool that mimics the front of a rifle bolt with a M16 style extractor in the face of the tool. George's tool is held in the tailstock chuck. The case is placed in the face of the tool centered on a machined projection that fits in the primer pocket and is pressed onto the sacrificial spud by the lathe tailstock ram. The protruding area on the extractor is pressed down raising the extractor claw. The tailstock is then retracted to allow turning the case neck. To remove the case, the ram is run forward allowing the extractor claw to snap over the case rim and the case is then removed by withdrawing the tailstock ram. This is a much better designed tool than the one that appeared in my article on turning brass.

The second item is a laser and telescope jig for setting flags by one person. As can be seen in the photograph, the unit can be adjusted with screw feet on the bench top to aim the laser at the point on the target frame that will be the maximum height of the flag assembly according to the rules for that shoot. In use, the person

Continued on page 74



The Harley Baker "Signature Model" brass retention device.



George Carter's tool to aid in brass turning on the engine lathe.

Things Seen And Learned At The 2009 Super Shoot

Continued from page 72

setting the flags moves around until the flag-setter's body interrupts the laser beam. It is then a simple matter to set the flag for

height and position based on the laser beam. George suggested that each flag going back to the bench should be a fewer inches lower than the previous flag so that no one flag can cover a more distant flag in the eye of a shooter at the bench. This is sound advice. George showed me some other

cool tools that will show up in a later article

During the Chippewa shoot, Vera shot all targets but one in the 'teens at a 100 yard stage. This was done in the rottenest conditions I have yet seen on that range. One shot in a reversal, as I remember, took her out to around one half inch ruining one of the best aggregates I have witnessed in high speed rapidly switching wind. I have never learned how to live large but I certainly learned how to shoot large at this match. Both of the Carters can seriously shoot.



George's laser/scope flag setting gadget.



George and Vera Carter from far away Canada. Two very nice and very smart people.

Dennis Tinkham

During practice for the Super Shoot I noticed a really odd looking arrangement on a front rest. The designer/user Dennis Tinkham explained that he had some damage to one eye and consequently could not see the wind flags in one direction. In a really classic example of "necessity being the mother of invention", Dennis designed a double mirror system to correct this problem. Dennis said that it took a lot of fooling around with tape and other clamping gadgets before he got it right and made permanent mounts. It is gratifying to see a really good human brain at work.

The Man Purse

At the previous Super Shoot I had the good fortune to shoot one position left of Mrs. Boyer. She is not only a very good shooter but is also a gracious lady. Coming to and from the firing line I was fumbling around with too many objects besides my rifle. Doing this very same thing at the earlier Shamrock match my rifle slipped out of my hands and hit the ground. Luckily, nothing was hurt other than minor paint damage. That started me thinking of some

better way to get my accouterments to the line in an orderly fashion. I noticed that Mrs. Boyer was carrying her shooting stuff in a small pink carryall something like a child's soft wall lunchbox. I asked her about this between relays and she said that it worked very well and that I should try and find something like it. This advice sounded very logical to me.

This past winter I sold off most of my film cameras on Ebay. I of course was careful to wait until the digital camera revolution had made the film cameras worthless. I was then left with quite a few empty camera bags one of which seemed suitable for carrying ammo boxes and other assorted gubbins to the line. I showed this wonderful accouterment transport device to



Dennis Tinkham's mirror arrangement on his front rest.

Continued on next page



New 47mm Lapua dies in 22, 6mm, 6.5 and 30 caliber.

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Things Seen And Learned At The 2009 Super Shoot

Continued

Ken Turner and Jim Pickerill (my shooting buddies). Rather than hearing the expected complements, I was told by both of them that what I had slung over my shoulder was actually a "Man Purse". Their observation was accompanied by elbow digs and sniggering. I think their insensitive reaction to my invention was caused by extreme jealousy. I know for a fact that Jim has on at least one occasion comprehensively dropped his rifle and should have therefore seen how insanely great my transport device was. These guys are out of my will.



The Accouterment Transport Device, otherwise known as the "Man Purse".



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