Winter 2012

The Minnesota Bowhunter

Inside this issue:

Letter from the President

Letter from the Editor

Legislative Updates / Members Meeting

Game Fair

Bowhunting Canadian Moose and Grouse

Bowhunter Education

Drop Camp Elk Hunt

How To Get Involved with MBI

How to Sharpen Broadheads

Kinetic Energy and Momentum

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From The President:

Members.

2012 is upon us and I have no clue what MBI is going to work on this year. Last year we sat in on a good Bow hunting Summit that never really turned into anything. At the forefront were the resources available to local groups to find funding to build front and center archery ranges. None of those hidden back in the woods 'oh my gawsh when did that show up' ranges. Ranges right off the freeway, mixed in with playgrounds and soccer fields. Safe ranges that work and let people see and become interested in archery and bow hunting. But nothing really happened that I know of. A shame.

2012 sports more opportunity for bow hunters in Minnesota. The MN DNR (big thanks to Bill Penning and Jay Johnson) extended the archery turkey season to the last 4 seasons. Bow hunters buying the archery specific tags were killing under 250 birds per year, so we have almost double the time afield to try and fill our turkey tags. Whether or not I fill my tag each year no longer matters to me, but I am appreciative of the extra time it gives me to try to get new bow hunters their first spring turkey experience.

The crossbow issue is not going away. I just got back from the ATA (archery trade show) and the presence of crossbows continues to grow. Be a tough task to try keeping them out of our current archery season forever, but bow hunting numbers are currently growing, our recruitment is strong, and there is no problem for them to fix. We fully support the handicapped permits, and we are constantly wary of the 55 and older clauses that are simply a foot in the door to increased archery season presence. Take one look at the muzzle loading equipment changes and proposals (scopes) and realize history is the best indicator of the future.

I know 2012 is going to mark the start of the year I push to bring together many of the segmented archery groups of the state. We invested a lot of cash in a new aerial target machine that can expose a lot of people to our sport, and it sits in a trailer most of the year. \$5,000 will change our insurance and help remedy that, so that is mission number one for me. The new indoor arrow tips that debuted at the ATA show in Ohio make that machine usable indoors now, so the potential for use has gone way up if we can coop to find the extra insurance premium dollars. Email me if you have ideas. I would really like to try to loan it out and wear the thing out.

2012 is wide open for input. If you have something bow hunting related you feel passionate about, get in touch with us. Protect and promote is our abbreviated motto. Let us know if you have ideas on either front.

Brooks Johnson President MBI



Random Thoughts: Year One in the Books

OK, so I may not be an actual editor like those of the many hunting magazines we all get like Bowhunter, Bow & Arrow and Traditional Bowhunter — I know more MBI members than just our President gets this magazine. But edit the newsletter I do now and with that I'd like to thank Nick for his time, commitment and energy that he put into MBI and the newsletter. I'll try and keep up the good work he did, even though I'm off to a horrible start. Regardless, we all hope you are settling well out there in WA and have been able to arrow a nice animal or two. The last I talked to him though he was out in search of some good Steelhead waters, so it sounds like the fishy Northwest may have already gotten to him.

Anyway, it's been about a year or so since the last newsletter came out and for that I'll take fault. I recently joined MBI about a year go in fact. I had heard rumors of this secret society of close knit Bowhunters but never knew when or where they met or what they did. Well, I finally found out that Mr. Hollywood Brooks Johnson was the President of this group and so through a mutual friend of ours I got introduced to him at the ATA show in 2011. He told me when the next meeting was so I showed up, became a member and now sit on the board and am in charge of the newsletter and Facebook page. For all you social junkies, I'll be adding a Twitter feed off of the Facebook page as well.

The first meeting was great but I quickly realized one thing, our group is old. Now, this really isn't a bad thing at all — it means there are guys who still bowhunt and care about what happens to the sport in MN. What we need is more younger blood to get involved so we can keep the great things going. Things like crossbows out of archery season and other expanded options like the recent May over the counter archery tag. I got in on the last two meetings of the off-season last year and so I barely got to know many of the board members of members for that matter. So I signed up for a weekend stint at the Game Fair and that's what did it for me. I know more of the guys now and I see how there is still young interest out there to pick up a bow and shoot. I too

just got my 9 year old nephew to pick up a bow, tried it, loved it and his parents bough him a bow for Christmas. Now whenever he comes to visit, his bow is in tow and we hit the range at least once for a couple hours of shooting games.

So closes the first of what will be many years with MBI. The best way to make a difference is to get and stay involved. So, I'll be keeping up the newsletter and Facebook page on a more regular basis. Like us on FB and let us know what issues you want us to tackle, look into or take a position on. At the very least get more people involved, young or old, anyone who shoots with a string and arrow is welcome, preferably vertical if you can:) Right now the plan is to send this out quarterly but we'll send more often if content and issues warrant it. Other-

we'll send more often if content and issues warrant it. Oth wise you can keep completely up to date by following us on Facebook or checking out the website (suggestions and comments welcome there too.)

Editor Matt Johnson



First bow buck-'08

Legislative Updates & Members Meeting

Recently Senators Seiben (Newport) and Thompson (Lakeville) introduced legislation that would make it legal for anyone 55 or older to use a crossbow during the archery season. At the time of printing, the DNR had not taken a position on the matter. Knowing that legal jargon can be hard to read, here is a link to the actual bill that was introduced the week of 2/13. Shortly there after a matching bill was introduced into the House as well. As of the printing of the Newsletter, neither bill has a hearing scheduled. Should these bills get a hearing we will be there.



https://www.revisor.mn.gov/bin/bldbill.php?bill=S1871.0.html&session=Is87

With that it is IMPORTANT MBI Members, if there are any issues that you feel are important to Bowhunters in Minnesota, please contact MBI.

Our mail address is; Minnesota Bowhunters Inc. 1769 Lexington Ave. N #138 Roseville, MN 55113

Or phone: MBI President Brooks Johnson: 763 213 6811

Or email us at: MBIPresident@gmail.com

MBI Members Meeting:

The next MBI Members meeting will take place on Saturday, March 31 coinciding with the MN State NASP event. The meeting will begin at 10am and will last a couple hours. Coffee and snacks will be around so come and express your views on what's new as well as tell a story or two about past or coming seasons.

Champlin Park High School:

6025 109th Ave North Champlin, MN 55316

Recently legislation was introduced that would allow persons 55+ to use a crossbow during the archery season..



. MBI and Rapids
Archery Club team up
to work the Game Fair
again in 2011. New
this year was the new
LaPorte Ariel disc

MBI at Game Fair 2011

MBI did "double-duty" at the Game Fair back in August. It hosted, along with Rapids Archery Club, the usual kid's archery shoot, but also provided attendees to the Fair the opportunity to test their trap skills with bow and arrow.

Hundreds of youth shot arrows at their favorite animal targets over the two weekends. The Rapids club provided the training for the kids and assisted them in launching arrows – the first time for many. The archery shoot is a fundraising event for both MBI and the Rapids club. New this year was MBI's aerial target which gave folks a new challenge – shooting at foam disks launched from the aerial machine using light-weight recurves and flu-flu arrows. This was a big hit and drew in many people who had never shot a bow before. It was



as much fun for the spectators as it was for the participants.

Game Fair also provided MBI the opportunity to host a booth to meet fellow bowhunters and archers to discuss issues that affect our sport, sign up new members, and sell some merchandise. MBI also raffled off a Genesis bow to a lucky winner. Special thanks go to Rapids Archery Club



Bowhunting grouse and Canada moose

Giant Canadian moose had always been of bowhunting dream of mine, so in 2010 I booked a trip to BC to chase the largest deer in North America. 10 days in the bush, chasing moose all day, and camping in the wall tent at night. I was geared for this trip, and from talking with the outfitter, I knew **bowhunting grouse** would be a bonus along the way. 47 arrows were packed and ready to rock, with every style of broadhead, judo and whatever else I could muster for the end of my arrows for *bowhunting grouse*. As the trip went on, it became apparent the moose were not going to come easy. The weather was warm, and there were new roads into our unit which meant more hunters. I don't know which one ruined the action, but my guess is the human pressure. We could hear cows wailing, and bulls grunting, but try as we may, we could not work them



in. We worked moose every day, but never laid eves on one outside the truck. The moose were there, but they were not going to play. Thank god we could kill time bowhunting grouse. As the week went on I brought more and more arrows for bowhunting grouse each day, and shot at every grouse I found unless I was lucky enough to fill my legal limit. Those 47 arrows turned into 9 by the end of the week and I learned a lot about bowhunting grouse along the way. We hunted both ruffed and spruce grouse, and the easiest shots of the week always came from spruce grouse in the trees. We spotted most of the birds from the road, and got out for the stalk. It became apparent as the week progressed that if you saw one on the road, you should start checking the trees for more. The tree birds staved put while the road birds did their best to keep a tree or 2 between you and them. I did not take long to develop an eye for spotting the size and shape of a grouse in a tree, and we were shooting a lot. We had grouse pizza, grouse

in Alfredo sauce, and grouse in red sauce. We had grouse in omelets for breakfast and grouse on crackers after supper. We ate a lot of grouse. The only arrows I had left at the end of the trip were 6 moose arrows, and 3 others all tipped with Snaro bird points for bowhunting grouse. I lost all my judos, and the 2 G5 tips I brought along through the trees. The Snaros flew from my 60 lb compound as well as my 50 lb recurve, and we killed lots of birds with each weapon. I used the 2 and 3 inch from the compound bowhunting grouse so they could clear the riser at full draw with my original hunting arrows, and I used the 3 and the 6 inch in my recurve bowhunting grouse to give me a margin for error. (there is a lot of air around a grouse) The Snaros were almost impossible to lose, and aside from the two I left in the top of different spruce trees, I came home with three of the five I left with. The design of the Snaro heads keeps them from diving under grass, moss and leaves for birds on the ground. The grass and forest leaf litter ate my broadheads of every style at a quick pace. The Snaro bird point also keeps the heads from skipping through the woods when bowhunting grouse. My Snaros quickly became the head of choice for birds in the trees as well, as even a solid hit with a broadhead meant the arrow kept going far enough it was futile to search for them. The Snaro bird tips stopped in the brush and branches and we always found them. My best guess is the broadhead tipped arrows lasted 2 to 3 shots before they were lost, and the Snaros were all I had left the last 4 days of the trip. I was glad I brought them along on my trip to British Columbia for what twisted from a dream moose hunt, to a trip devoted to bowhunting grouse.



A full quiver for bowhunting Grouse? The question remains though, what 9 arrows survived the week?



Are you MN-BEP or NBEF certified? Do you need to be to hunt where you want to this year? If your headed to some western states or for some city control hunts you need to be.

Bowhunters Ed 2011-2012 By Tony Kuehn

The bowhunting season will be here soon enough, whether its spring turkey, bow fishing or a early fall hunt you want to be prepared. As part of your preparation you may look into some of the urban deer removal programs, out-of-state hunts and a few special county hunts. After some research you might find out that a MN-BEP or NBEF education course is required in the area you want to hunt in 2012. What is that you may ask? Well let me tell you.

I have been instructing Bowhunters Education classes for about 15 years now. The materials are based on The International Bowhunter Education program (IBEP) in North America and is jointly administered by the Minnesota state DNR and the National Bowhunter Education Foundation or NBEF. The education program has origins going back to the late 1960s.

Originally the course was a 9 $\frac{1}{2}$ hour lecture series with a outdoor field session to cover some of the items in the lectures. Classes were typically covered over the course of several days or one long Saturday. In 2010 a new option became available. For the first time bow hunters were able to study lecture materials in a Computer Based Training format (CBT) , take an on-line test and complete the training with a field day exercise. Unfortunately, the field day locations were limited and there was time lag in reeducating instructors and supporting clubs to the new criteria and process.

The problem for instructors such as myself was that we not only have to coordinate the collection of CBT completion vouchers and registration, but also lining up a club or other field location to host the training. In 2011, this situation was complicated by a MN state government shutdown which cancelled all classes and field activities. As such there was some catching up to do. Some hunters worsened the situation procrastinated and waited till the last minute to look for locations that were offering the final phase of the training. I participated in a late August field day and like many folks turned my thoughts to hunting shortly afterwards.

As a volunteer DNR contact for courses, I can tell you I was still getting calls from interested parties up until the first week of November last year. For those people who made the inquiry who were unable to locate a field day, my advice is to start much earlier this year. Very soon now classes will start to be forming and the volunteer instructor groups will probably be able to accommodate those who are interested and make a request in a reasonable timeline. Remember most instructors love to hunt just like you do and during the hunting season we will most likely be in the woods. Don't wait until the last class to try and register.

Why not think about taking a course this year? It isn't very expensive (on-line participants only pay once they complete the course), you may learn something, make new friends and even discover a new club to visit on a regular basis. As long as you meet the minimum age criteria; bowhunters of any age group, skill level and experience are welcomed. If you have already taken a Bowhunter Education course how about volunteering to assist with the field day exercises or training? Most courses could use a few extra folks to help out and you will find field activities can be fun as well as educational.

For more information on Bowhunter Ed courses in Minnesota, contact the MN DNR 1-800-366-8917 or view the website link:

http://www.dnr.state.mn.us/safety/bowhunter/index.html#

On line courses available at:

http://www.bowhunter-ed.com/minnesota/

If you are interested in assisting with a course or represent a club who would like to host a training event please give me call.

Tony Kuehn

982-715-7370

Yjoesis1@aol.com

My First Drop Camp Hunt By Dale H

Last fall I decided to try something different. I decided to go on a Drop Camp Hunt. I contacted Marshall and Rhonda Ledford of Archery Unlimited Outfitters (www.archeryunlimited.com) in Durango, Colorado.



I stayed at my sisters in Nebraska on the first night and then in South Fork Colorado on the second night. I stayed in a cabin at Grandview Cabins and RV in South Fork. When I got to my cabin a guy sitting on the porch in the cabin next to mine said "Go Gophers". By his accent I knew he was not from Minnesota. I started talking to him. He was from Kansas and was archery elk hunting with a couple friends. His name is Frank Kill and yes he is the brother of the Minnesota Gopher Football Coach Jerry Kill. He was a nice guy and fun to talk to. He

wants to get up to Minnesota and do a Archery Bear Hunt so that he can attend a Gopher football game.

I spent Sunday and Monday in Durango. There are many things that a person can do in Durango, including taking the narrow gage train to Silverton. I chose to spend Monday at Mesa Verde National Park.

Tuesday morning I drove over to Marshall's ranch where I filled out paper work while Marshall and Justin got the horses ready for the trip up to camp. They loaded the horses into the trailer and we then headed North out of Durango up highway 550 toward Silverton. We pulled off the highway at Lime Creek Rd. (forest service rd. 591).

The ride to camp was about 5 miles. Because I am not a horseback rider I had some concerns about the ride. That was not a problem, the horses were gentle and easy to ride.

The camp was located at 11,400 feet. It consisted of a large outfitters tent with two cots in it. It had a small gas stove with two burners. There was a tent outhouse, the kind that you can buy at Cabela's or Gander Mountain.

When I got to camp there was a father and son from Michigan. They endured rain and sleet and finally snow for three and a half days. There was snow on the ground in shaded areas when I got there. I was lucky and had sun shine all five days I was there.

I did not see any elk while I was hunting. I did hear bugles every day except for one day. Also there was a lot of sign around. The area was very steep. The coldest it got in the tent was 37 degrees. Most days were in the 60's. I did not see another person while I was there. Marshall gave me a cell phone but it did not work up there but as it turned out my cell phone did. He asked me to call him every couple days just to let him know if I was ok.

If you are going to Colorado Elk hunting and want to get away from civilization I would recommend trying a Drop Camp Hunt.



Marshall gave me a cell phone but it did not work up there but as it turned out my cell phone did.



MBI MEMBERSHIPS FOR MINNESOTA ARCHERY CLUBS

In case you didn't know, MBI offer's two types of memberships for archery clubs in Minnesota – 100% Clubs and Affiliated Clubs.

100% Clubs: 100% Club memberships are where all members of the Club are required by the Club to belong to a state archery organization. As a 100% Club member of MBI, an individual annual MBI membership for the Club members is \$15 (\$5 less than regular members). Also, the Club is granted one seat on MBI's Board of Directors.

Affiliated Clubs: Affiliated Club memberships are where all members of the Club are not required to belong to a state archery organization. As an Affiliated Club member

of MBI, up to five Club officers are granted one-year memberships to MBI for a total membership cost of \$75.

Although MBI's primary focus is bowhunting, MBI knows how important the Clubs are to the success of bowhunting in Minnesota. We appreciate all that the Clubs do for archery in our state. If you belong to an archery club, please consider your club becoming either a 100% Club or Affiliated Club member of MBI. Visit https://www.mnbowhunters.org to become a member. We welcome your support.



ATTENTION ALL ARCHERY SHOPS!

If you're an archery shop and free advertising sounds good to you, then consider becoming an MBI Booster. MBI offers a MBI Booster membership to any business for just \$50 per year. In return, your business gets one year's worth of free advertising on MBI's website. Your ad will consist of your logo and a link to your shop's website. For more information, please send an email to MBIPresident@gmail.com or go to http://www.mnbowhunters.org to become a member. MBI welcomes your support.

How can you get involved with MBI?



Sharpening broadheads is easy

If you have \$100,000 in machinery. Broadhead blades are made in a select few manufacturing facilities worldwide. It take specialized machines to do the best job **sharpening broadheads**. These quality factories take the time to do a good initial job *sharpening broadheads*. Now I am not saying there are not individuals who can not replicate or surpass this factory edge, as some people do master the task of <u>sharpening broadheads</u>, but the factory edge is the best edge most archers can get.

Re sharpening broadheads



carbide v style sharpeners

There are a great number of tools and systems for re sharpening broadheads. Carbide V's, wheels, Lansky style sharpeners, files, and on and on. They all do work well when we take the time and learn how to use them when sharpening broadheads. My favorite, and the only one I use are the carbide V's such as those supplied by Klawhorn Industries. Don't look for this style of sharpener to put a factory edge back on your broadheads, but do have one or 2 in your day pack or broadhead case in case you need them. If you were to look in a microscope the edge produced is almost serrated, but it will cut vitals almost as well as that factory edge. Carbide V sharpeners can remove material in a hurry when you are working blades damaged by rocks, or with light pressure they will produce the finishing touches when re sharpening broadheads. I always have a fresh one in the hood of my Cat Quiver for sharpening broadheads while in the field. They are they easiest way to sharp broadheads for archers who have not been trained on other systems.

Replacement is easier than sharpening broadheads

If you can't seem to get the hang of sharpening broadheads, you may be better off put-

ting a fresh set of blades in. Nothing will spoil a good shot quicker than a dull broadhead. It is often easier to replace your blades. Reign broadheads have a one punch system that eliminate sharpening broadheads. You shoot the heads once, punch the blades out and slip in a new fresh factory set. You always have a factory sharp set ready to go when your are hunting. Most broadhead companies don't have a ferrule system that will accommodate blade replacement, but Reign broadheads run a stainless steel ferrule that is virtually indestructible. The ultra tough ferrule will last for countless animals, and with each blade change it is like having a factory fresh hair shaving head straight out of the box. You may never find yourself sharpening broadheads again.





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Which is it that's more important to you - Kinetic Energy or Momentum?

Kinetic Energy, Momentum and Arrows: A simplified approach

By Michael Larson of Archeryreports.com

It is often debated in archery and bowhunting circles which is more important: kinetic energy or momentum. Nearly as often the terms are not fully understood! In this article we tackle the basic definitions of both KE and momentum, how to calculate them and why it's important.

For those more adventurous in their appetite for physics and mathematics, another, more complex version of this article is currently in the works and should be published soon.

Kinetic Energy of Bows and Arrows

The kinetic energy (KE) of an object is the energy of the object due to its speed. In order for the energy of an object to change, work must be done on the object. In the case of an arrow and archery, work is done by the archer's muscles by pulling back the string and flexing the limbs. The energy is stored in the limbs in the form of potential energy; when the string is released the energy stored into the limbs is released, most of which is absorbed by the arrow.

The energy not absorbed by the arrow becomes friction in the bow parts, noise, vibration and other inefficiencies experienced by the bow. Energy that is absorbed by the arrow is converted into multiple forms, the majority resulting in the forward velocity. The kinetic energy of the arrow that archers care about and calculate is the energy due to its forward motion. As the arrow travels downrange, the total energy diminishes mostly due to air.

Momentum of an Arrow

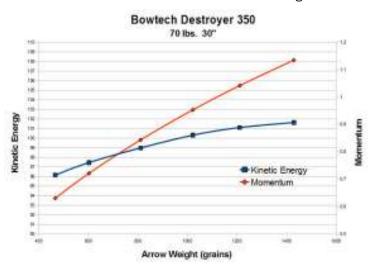
The momentum of an object is the product of its mass times its velocity. Momentum is NOT a type of energy but it can be related to kinetic energy mathematically. There is a difference in terminology between the words speed and velocity. Speed is just a number, velocity is speed with a direction. For KE, either can be used and the resulting number, the energy, has no direction. Velocity is used in the momentum calculation because momentum is a vector quantity; or rather momentum is a measure of the speed of the object along with its direction, times its mass.

Who Cares About Kinetic Energy and Momentum?

Archers and bowhunters care of course! There is always a lot of debate in the archery world as to which is more important when trying to find the best hunting arrow: kinetic energy or momentum? I do not believe that either can be ignored but rather both should be considered.

The following graph shows the kinetic energy and momentum of a Bowtech Destroyer 350 set at 30" and 70 lbs. as it is shot with various arrow weights.

For this testing, all arrows used are Easton X7 2412 aluminum arrows with different variations of other shafts inserted into them to get the various weights. This way all of the arrows shot have the exact same external dimensions and characteristics.



The kinetic energy and the momentum both rise as the arrow weight is increased. For the arrow weights tested, the kinetic energy tends to be leveling off but still gaining slowly, while the momentum is climbing steadily but is beginning to level off slightly. Of all the testing done to date, I have not found any cases where the kinetic energy and momentum will decrease with increasing arrow weight. There is most likely a point where the arrow is so heavy that the bow cannot efficiently propel the arrow forward, but it is somewhere beyond 1500 grains for bows I have tested.

Why is this? Why doesn't an increase in arrow weight reduce the velocity exactly in proportion to the kinetic energy and momentum? The answer lies in the efficiency of the bow. As arrow weight is increased, the bow is able to transfer a higher percentage of its stored energy (potential energy) into the arrow. Less of the bow's energy is converted into wasted energy. A simple test is to take any bow and shoot two arrows of significantly different weights and the bow will be quieter and have less vibration with the heavier arrow. More of the energy goes into the arrow and thus less is converted into vibration and sound.

Kinetic Energy and Momentum of an Arrow After the Shot

Once an arrow leaves the string, the mass of the arrow continues to have a significant effect beyond determining the initial velocity. As good ol' Sir Isaac Newton taught us, F=ma (Force=mass*acceleration). In archery terms, this simple equation states that the force slowing the arrow down (mainly air resistance) is proportional to the mass of the arrow and how quickly it slows down. The greater the mass, the more force it takes to slow the arrow down. Considering two arrows of equal outside dimensions, including the point and vanes, but of different masses, the arrow with greater mass will take more force to slow it down.

Because the two arrows have the same profile, the air resistance will be similar and the lighter arrow will be subject to a greater deceleration. Of course the lighter arrow will begin at a higher velocity, but the heavier arrow will lose less of its initial energy downrange. Knowing that a heavier arrow will always have a higher kinetic energy and momentum to begin with, and knowing that it will also slow down at a lower rate downrange, it becomes obvious that a heavier arrow will not only begin with more energy and momentum, but will retain a higher percentage of its energy and momentum downrange. See "Heavy vs. Light Arrows: Downrange Speed and Power" for more details on this subject.

So why not shoot solid steel shafts that weigh in the pounds instead of grains? Such an arrow would have lots of energy to begin with, but very little velocity and would "drop like a rock" shortly after leaving the bow. It becomes a tradeoff between speed and how much an arrow will drop over distance, and how much energy/momentum the arrow will have when arriving at the target.

When an arrow reaches an animal, energy and momentum are rapidly lost as the broadhead encounters resistance to cutting the skin, bones and organs, as well as friction, and resistance to bodily fluids that is much higher than when flying through air. In the case of mechanical broadheads, energy is required to open the blades as well.

Many people will argue that either KE or momentum is the better indicator of penetration potential. I differ from their opinion in that I believe both are good indicators of penetration potential and prefer to use both numbers together. Energy is used and transferred from the arrow as the blades cut, slice, break and otherwise move through an animal. Momentum gives a good indication of resistance of the arrow to slowing down. My suggestion is to learn to understand and use both numbers rather than relying on only one or the other.

Since a lot of the means in which to test KE and Momentum are readily available to most archers, be sure to stop in to your local archery shop and give your set up a shot through the chrono to see what speed you're really shooting and what your arrows really weight.



So why not shoot solid steel shafts that weigh in the pounds instead of grains?

Minnesota Bowhunters Inc. 1769 Lexington Ave N. #138 Roseville, MN 55113



Continuing the tradition...



Minnesota Bowhunters Inc. (MBI) is a statewide organization that has been representing, protecting, and promoting bowhunting since 1946. MBI is a non-profit organization registered with the IRS as a 501(c)3 and the State of MN. As a community of bowhunters our mission is to ensure that future generations of bowhunters will be able to enjoy the great sport of bowhunting as we have. It is with dedication and commitment to that end that the current board and membership devote our time and talents. It will only be with that same dedication of new and future generations of bowhunters that we will be able to succeed