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Why hunt Pagosa Country?

By Dick Ray

I was born and raised (reared) in New Mexico, a grandson of pioneers who came to the territory in a covered wagon.

I grew up hunting in the dry, rocky, cactus-covered mountains of southwest New Mexico where my grandparents had homesteaded.

Then, one day over 47 years ago, my wife and I discovered Pagosa Country.

Of course we noticed the scenic grandeur of the San Juan Range, but we also noted that we could ride our horses over most of the terrain and the vegetation that did not include cholla or prickly pear cactus. Every major drainage had a creek, stream or river and most had trout in them. There was a variety of game animals, and plenty of them.

We decided this is better, and proceeded to move from New Mexico to Pagosa Country. But, we weren't truly satisfied with the game situation. The state allowed spike (yearling) bull elk to be harvested and, consequently, there were very few 5x5 bulls or larger taken each fall; all deer and elk licenses were unlimited, and public land was crowded.

It seemed that Pagosa Country had been discovered. The standing joke around town was, "If the Mexicans knew when Colorado elk season began, they could retake the Alamo with no resistance," as every able-bodied man in Texas was in Colorado hunting.

All of this prompted some research on my part. This resulted in the purchase of a Guide/Outfitter territory in British Columbia, Canada, in 1977. We continued to remain Colorado

residents, but quit guiding elk hunters in Colorado and focused on private land in New Mexico and elk, moose, bear, mule deer and white tail deer in Canada. Traveling to Canada each fall took me through Wyoming, Utah, Idaho and Montana, always on the lookout for better hunting grounds. This went on until 1992, when we decided to sell the Canadian venture and refocus on Colorado and northern New Mexico. My son, Mike, and I had been licensed to guide in Utah, Arizona and Wyoming and had decided, "Pagosa is better."

Good judgment had prevailed in Colorado, for all through the 1980s, the state had made a bull elk less than 4 points illegal to take in most areas. It took a while, but finally there were some older age class bulls to be found to keep the spike from breeding, allowing the elk herds to begin to regain their sizes. (Without older age bulls to drive the yearling away, he will mate with his mother, sisters and aunt, thus depriving the herd of the genetic diversity required.)

In 1999, encouraged by sportsmen, the Colorado Wildlife Commission totally limited the numbers of deer licenses in the state. Deer numbers have rebounded to some degree, bears are abundant, foxes are common, as are mountain lions and coyotes — all are the result of good habitat.

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A big lion, like gold, is where you find it

By Dick Ray

He glared at us with golden green eyes that danced with contempt. He had no use for those of us beneath his tree, and we knew it. He was huge by any standard, but I had no need, no wish, no desire to take his life. The day had begun with only the hope to find a lion track that the hounds could trail, and perhaps, catch and release.

The day prior, an outfitter friend, Mark Davies, of Grand Junction, had arrived at our place near Pagosa Springs. Mark had wanted to take a pair of our hounds that might replace a couple of dogs in his pack of lion dogs. Well, a little snow was predicted to fall that night, so my son Mike and I encouraged Mark to stay over and hunt with us the next day. More than half the time, predicted snow fails to materialize, but when we looked out at 4 a.m., sure enough, about one and a half inches had fallen.

It was Feb. 25, and that late in winter, such a small amount of snow usually melts by 9 or 10 a.m. But if you can find a track early, sometimes you can get a lion treed before the track and scent vanishes.

We left with high hopes, invigorated by the cold, crisp, clear morning and knowing that we had as good a chance as anyone to find a lion track that day. We knew that some of the numerous other hunters in the area were sure to be out and about as well. The quota for this area was almost full, with only one lion left to be harvested. With so many hunters out, that would almost surely happen, closing the season by sundown.

Mike and I chose to try Devil Mountain because we had seen sign of a big lion there about 10 days earlier. Mike made his way up a drainage, while I went up another a few miles west. I found the track of a female lion right away and released my three dogs on it. The snow was already melting, for the steep slopes were composed of black shale that held warmth from the day before. The dogs were able to trail up and onto a ridge for nearly a mile before the sun took the track and its scent away from them. They weren't going to make any progress and I didn't, as I climbed up to them. Catching and leashing them, I headed back.

I went to see if I could find Mike, knowing that our trailing conditions and time were passing fast. Mike had come back down his mountain, and we got together. He had a story. He had found a big lion's track up higher, where there was a little more snow. If we hurried, and were lucky, the dogs might still be able to work it.

It took us about an hour to get up to the track. That which had been a big, beautiful fresh track at daylight was now a pathetic half-melted, barely recognizable line threading under old-growth ponderosa pines.

Mark took a long look and said, "It's big, but most hunters would say that it's too melted out to work."

I said, "Mark, we would agree, but let's see what the hounds say."

We released all six dogs, and they took the track onward. And on they went, over a ridge and out of hearing. Now you always hope that a lion has a fresh kill just over the next ridge and that the dogs will tree him not far from the kill. It happens sometimes, but



Photo by Ken Logan, DOW researcher, Courtesy Colorado Parks and Wildlife

A mountain lion, also known as a puma, is treed in western Colorado. Pumas are being trapped, tagged and tracked as part of a long-term research project.

not that day. As we climbed and crested the ridge, we could again hear them in the distance, trailing; then, out of hearing again. A few steep, slick shale slopes more, and then we could hear the dogs bark treed.

As we walked up to the tree, he appeared the same as every lion I had ever seen — splendid, noble, and a word that is over-used but should be reserved for the truly special — awesome. We gazed up at him, and he glared back. Both Mark and Mike urged me to take the lion. I had never killed a lion in Colorado, and had never planned to. In 1985, Mike and I treed a lion in New Mexico, which I took with my Bear take-down bow. I had wanted to take that lion. It scored 15-8/16 and was the New Mexico state record for eleven years. I didn't need another lion.

Mike and I have enjoyed our years of work guiding lion hunters. The first Boone and Crockett lion that I ever saw was the one Father Anderson Bakewell, a Catholic priest, took with me in 1978. Mike's first lion was a Boone and Crockett that he took alone in 1982, just out of high school. How could I justify taking another lion of this class?

Suddenly, it became very personal to me. To be sure, the novice may kill without question, having not done it before — he has not experienced the pondering and twinge of remorse that accompanies the still, lifeless form that the act of killing produces. Why we kill is a mystery, outranked only by the mystery of death itself.

Once again, Mike said, "You may as well take him. If the quota doesn't fill today, someone else will kill him

on the next snow. Besides, at your age, this might be the last really huge lion that you ever see."

"True," I thought. "I don't have a gun," I said.

Mike handed me his .44 from his backpack. I questioned my conscience and wondered if it would be enough to immortalize this creature with humble respect and a life-size mount? And then, at the shot, he fell from the tree, dead.

As I looked at his splendid form, I wondered, "What stories could this lion have told?" He was about 7 years old. Being an obligate carnivore, he had to kill to survive, and at a rate of about a deer or an elk a week, he would have made several hundred kills.

We packed out his hide and his meat in our backpacks and led the dogs back across the canyons and down the mountain. As we walked, I remembered Ray Bailey's Boone and Crockett lion taken with us in 1986. It wore a collar that had been placed on it five years earlier west of Grand Junction. We took the lion about 300 miles south of there in northern New Mexico. It made me wonder, who is this lion? Where did he come from? Has anyone ever laid eyes on him before? Does he have a brother out there? And then I thought, a lion is what we would all like to be — a true free spirit. He goes where he wants, kills when he's hungry, and doesn't pay taxes.

My last thought before I came to peace with myself was that I hoped that he had left many sons behind, for all living things will die, and be replaced by their own kind. It is the nature of things.

A hunter's tale: 'The day I grew up'

By Dick Ray

The southern Rocky Mountains are rich in the natural history of many species of wildlife, as well the history of the people who affected and were effected by that wildlife, be they hunter, trapper, stockman or explorer.

In the mid 1970s, there were only a few outfitters who kept a pack of hounds trained to hunt bear. I did keep hounds, and consequently was called upon from time to time by the Division of Wildlife to pursue a stock-killing bear. One such hunt, in the mid 1970s, caused me to venture high into the mountains above Saguache, Colo., onto the summer range of rancher George Ward.

In order to reach the site of the predation, we had to pack in horseback to the high country on the north side of Baxter Peak to an elevation of approximately 10,500 feet. I was accompanied by Bert Widhelm, the game warden for that area, a couple of young men who worked for me at that time, and the rancher, Ward.

We got to the camp site late in the evening with just enough time to hobble the horses, tie up and feed the hounds, gather some firewood and make camp. After a supper (not dinner) of biscuits, beans and steak came the coffee and Ward's stories.

After a while he asked me, "You are from Pagosa, don't you know Lloyd Anderson?" I replied, "Of course I do; he is the government hunter and trapper, and a fine gentleman he is." I then asked, "How is it that you know Mr. Anderson?"

Says Ward, "I used to work for Lloyd Anderson, and I'll tell you about the day I grew up. It was back just before WWII, and Lloyd and I were packing into the headwaters of the Pine, northeast of Pagosa, to do some predator work around the many herds of sheep, on their summer ranges.

"Ahead of us, going along the same trail that we were on, we spied a pair of bears. We got off our horses and Lloyd peered at them with his field glasses and then spoke out, 'I believe it is a Grizzly!'

"At that, I took my .25-20 from the saddle scabbard and took aim. While Lloyd looked through



Photo courtesy Colorado Parks and Wildlife

Although variable from blond to nearly black, grizzly bear fur is typically brown in color with white tips. A pronounced hump appears on their shoulders; the hump is a good way to distinguish a black bear from a grizzly bear, as black bears do not have this hump. There are no grizzlies remaining in Colorado.

the glasses, I calculated windage and elevation. I squeezed the trigger and the biggest bear dropped. I jumped up and down with excitement as the shot was several hundred yards long. Lloyd didn't say much except, 'Let's go see what you've done.'

"We mounted and rode on to the dead bear, the other one had run off. I asked Lloyd, 'Have you ever seen a shot like that? And with a .25-20!'

"The bear was a beautiful, adult female grizzly. Finally, Lloyd said, 'Now let me tell you what you have really done. You have killed a bear that didn't need killing and with a gun that is no bear gun and that is much more likely to wound than kill, even at close range. Now we are up here to protect domestic

sheep and there has been no report of that bear killing any sheep, so why kill it?"

"Well, as those words sunk in, from a man who I respected so much, well, that is the day I grew up."

Ward went on to speak to us younger men that night about ethics, respect for the animals and self respect.

And so it is with hunting. It is not so much about what you kill as it is about what you learn; about the natural world, the terrain, animal behavior and yourself. I greatly appreciate the time I have been able to spend with men of the quality of Anderson, Ward and all of the others who have passed on their knowledge before they, too, have passed on.

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Hunter safety card required for purchasing hunting license: Local classes offered

By Donald D. Volger

Hunter education classes will be offered three times this season in Pagosa Springs, on Aug. 28 and 29 (before the start of archery season on Aug. 30), Oct. 9 and 10 (before the start of the first rifle season on Oct. 11), with a final class on Oct. 16 and Oct. 17 (prior to the start of the second rifle season on Oct. 18).

Sessions will take place 6-10 p.m. on Thursday and 8 a.m.-5 p.m. on Friday. Students must attend each session.

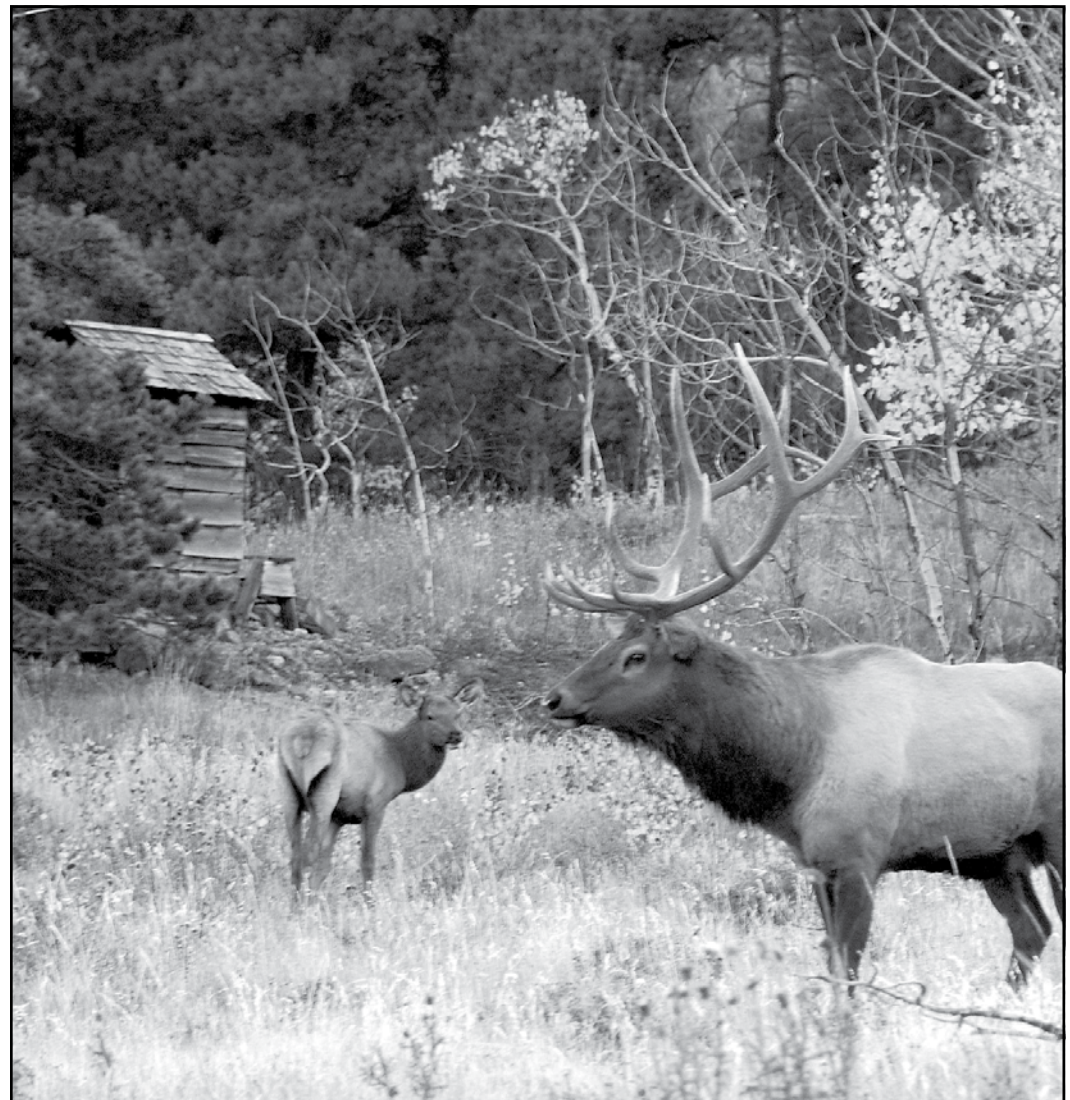
Classes will likely be held at the San Juan Mounted Patrol Building, 302 San Juan St., in downtown Pagosa Springs; the location will be confirmed at a later date. Please contact Don Volger at 264-2197 or ddvolger@gmail.com for updated location information.

Cost is \$10 for the class and there is no need to pre-register. These courses will be open to anyone wishing to obtain a hunter safety card.

If you were born on or after Jan. 1, 1949, you are required to have a hunter safety card before you can purchase a hunting license.

All programs, services and activities of the Colorado Parks and Wildlife (CPW) are operated in compliance with the Americans with Disabilities Act. If you need accommodation due to a disability, contact Volger at 264-2197 or ddvolger@gmail.com. To assure that CPW can meet special needs, please notify Volger at least seven days before the class.

These courses are sponsored by the Pagosa Springs Police Department in conjunction with CPW.



Jennifer Churchill, Colorado Parks and Wildlife



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A Colorado Bear Fight

Adventures in the high country in Pagosa took on a bit different flavor in days gone by. Read about it in "A Colorado Bear Fight," an account written more than a century ago by Will Price.

"In November, 1911, the bears were coming down quite low on the Navajo River hills, after acorns, and Weisel's herder said he was afraid to take the goats up Oak Creek because a bear was acting bold and sassy and would not run at his shouts.

"I rode up there one snowy day and sighted three long-haired bears across a narrow valley. They were fat, their legs seemed short, and they were nosing around under the oak brush. It was hard to guess the distance through the falling snow, but I made three shots. Two of the bears started at once up the hill for the heavy spruce timber towards Price Peak; the third following slower as if disliking to go. A hasty examination showed no bloodstains in the snow where they were rooting, or on their trail.

"When I reached the spruce, the down logs were so bad that I tied my horse under a long, drooping limb of a tree, which made good shelter, and then took the trail of the bears afoot.

"When the bears came to a ridge or knoll, they usually would travel along the foot of it for a while, then double back higher up so as to overlook their trail to see if they were being followed. This gave me a chance to gain on them by short cuts across their zigzags, so that when we got through the timber to the foot of the rocks where the bears den up for the winter, their tracks showed fresh in the falling snow. The outer fringe of timber on the steep mountainside had been burned over and a new growth of small fir trees was coming up. Through this new growth of small fir trees, about a hundred yards ahead of me, I could catch a glimpse of the bears as they passed through one open space to another. I took a quick shot at one.

"Soon after I noticed one coming in my direction and held my gun ready to shoot should he appear in an open space, but he avoided them and made

his charge out in the thick undergrowth slightly to the right of where I was facing and was not more than twelve or fourteen feet distant when he came in view, giving me time only to swing my gun around and fire without raising it to my shoulder.

"The shot broke his nose above the two long fangs and went into his throat. He struck me head on, at the waist, and we both slid down hill about twenty feet. When we stopped, I was feet first on my back, dragging my gun by the muzzle in my right hand. He was on top, lying down on me, head at my feet. His first action was to grab one of my feet in his mouth.

"My first thought was to run my gun around and work the lever, but to do that it was necessary to get him off so I could use my left hand. I did my utmost to push him over or around, but he spread out his legs and kept his entire weight on me. After exhausting my strength for nothing, and he was not damaging my feet any, I played 'possum' and laid still, which caused him to stop and sit up and look around. He was sitting on my face and I thought the long hair would smother me, but I managed to turn my head and blow a hole in the snow and breathed easier. After a while, he slowly turned around, shifting his weight to my body, and as soon as he saw my face, he made a quick grab and tried to crush my skull, but his upper teeth would turn back and he could only make scratches. One lower tooth penetrated my nose so that the blood ran down my throat.

"He acted like a dog fighting a cat. He would make a quick grab, then jerk his head back like he was expecting return bites and scratches.

"Of course my playing dead ended when he began biting my face. I had on buck gauntlet gloves, and would grab his nose or jaw with elbows on the ground and hold him back somewhat. His broken bones and teeth made more than fifty scratches on my face and I felt that my face was being eaten away, and when my eyes filled with blood, I thought I was blinded and gave a loud cry, knowing



Michael Seraphin, Colorado Parks and Wildlife

well that there was no one to hear me. The blood in my throat choked me a little, and I gave up all hope. I thought, no one will know where I am. Perhaps a sheepherder will find my bones next June. I felt sorry for my mother; how badly she would feel.

"Presently he ceased operations, and I acted like I was dead. He thought I was done for, so he stood up across me and one of my eyes cleared up so I could see him bleeding from the mouth, and he seemed to be in great pain. Then he started to walk away. When he was about six or eight feet distant, I got to my knees and made a grab for my gun, but he was watching out of the corner of his eye and quickly turned around and made a dive for me. I grabbed him with both hands in the long hair of his jaw and neck, and being on the upper side he could not push me over. He never once tried to stand up or slap me with a paw.

"I noticed that he was growing weaker, and I could hold him away from me, and a thrill of hope passed through me. I said, 'You ___, you have had your chance. Mine will come soon.'

"After trying several times more to push me over, he gave up and started to pull away, but I had my hands full of long hair and could hold him. Then he became very anxious to depart, and when I was sure he would keep going, I released my hold and he walked away, head down, giving me a chance to end the act.

"I pulled my glove from my left hand, which was swelling very fast, coat and shirtsleeves ripped away, and tied it up the best that I could and started for the ranch. I could not find my horse's track, it being covered up by snow.

"When I passed the Kistle ranch, Mrs. Ida Kistle, whom I had known for years, was standing in the doorway. Upon seeing and not recognizing me, she jumped into the house and slammed the door.

"When I reached the Weisel ranch, Mrs. Weisel told her boy, Duane, to call her husband before I washed so he could see me, as he argued once that bears never attacked men."

This story is reprinted from Remembrances, Volume 1 with permission from the San Juan Historical Society.



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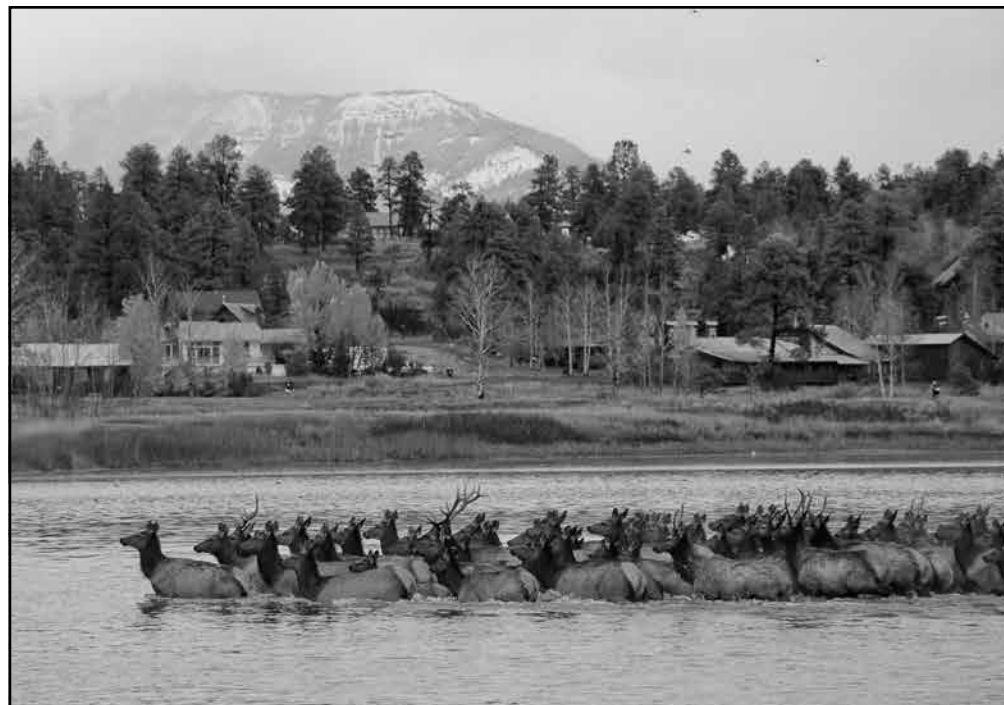
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Michael Pierce Photography

A herd of elk makes its way across Pinon Lake, near the Quality Resort. The elk were reportedly startled by people eager to watch and photograph them, and made their way into the water. Officers of the Division of Wildlife maneuvered the herd using noisemaking rounds — “whistlers” and “screamers” — as well as rubber pellets shot into the water behind the animals. The herd was moved out of the south end of the lake. Traffic on U.S. 160 was blocked by local law enforcement officers and the Colorado State Patrol while the herd crossed the highway into the Alpha subdivision.

Pagosa Country is hunters' headquarters

Pagosa Country is headquarters for many hunters in southwest Colorado. It is ideally located in the midst of some of the best big game hunting in the United States.

Many of the people who live in the area are big game hunters and have, therefore, learned to cater to the needs of hunters. The town and surrounding area can supply all of the amenities needed. There are motels, hotels, lodges, campgrounds, medical facilities (including a hospital), a supermarket, convenience stores and many retail stores.

The inventory of hunting equipment in local stores is extensive. There are hunting and fishing supply stores, hardware stores, clothing stores and automotive service establishments.

Pagosa also has some of the finest restaurants to be found in the region. Hunters, after several days of camp food, will find that any of the area restaurants will provide a welcome diet change. These restaurants make a special effort during hunting season to provide hearty meals.

Stores are well stocked with warm, comfortable outdoor clothing and shoes at reasonable prices. They carry special boots and shoes for hunting and for stormy weather, plus fluorescent orange vests, jackets and hats (required by law).

Hunters often wish to take home a gift or souvenir of their visit to this part of the world. There are numerous stores and shops with every imaginable type of gift.

Along with the merchandise and items for sale, local merchants are a good source of information about the area and will assist hunters whenever possible.



Keyah Grande Ranch

Protect your hunting privilege

By Donald D. Volger

Thousands of sincere, well-meaning individuals have concluded that killing is wrong. They don't believe man has the right to take life because all life is precious. They are right; life is precious and murder is wrong.

Murder is killing unlawfully with malice aforethought. However, hunting is not murder because malice is not a factor. Hunters, for the most part, harbor a deep respect and appreciation for the game they pursue.

Man is responsible for what happens to the earth. He must accept his role of caretaker and learn to manage the natural resources wisely. Wildlife is one of this planet's most precious resources.

Wise management is based on the principle that healthy animal populations are limited by the amount and quality of the habitat in which they live. If the number grows too large, the habitat is negatively affected and animals eventually die of starvation and disease. Therefore, the number of animals must be limited to avoid overpopulation and habitat destruction. In modern times, hunting has proven to be the most efficient and humane method of population control.

Many species have benefited from the establishment of well-planned management programs. Today, whitetail deer, mule deer, antelope, elk, bear, moose and buffalo populations are on the increase in many portions of our country. Nongame species like the river otter and the peregrine falcon also benefit.

How are these programs funded? By sportsmen's dollars. When hunters and fishermen purchase licenses, their money goes to support management programs. When outdoorsmen buy hunting and fishing equipment, a portion of that money is added. When hunters purchase migratory waterfowl stamps, those expenditures help obtain and improve habitat. Dollars from Ducks Unlimited, Rocky Mountain Elk Foundation and similar organizations are used for buying and upgrading wildlife habitat.

Who is responsible for the healthy wildlife populations? The sportsman and the dedicated wildlife manager.

The hunter, however, has an image problem. Many hunters are viewed as egotistical, macho slobs who get some kind of perverted pleasure from watching things die — and this is not true. But we, as hunters, are partially to blame for the misconception.

When unethical hunters litter, vandalize property, trespass, improperly display harvested game, violate safety rules and commit game law violations, all sportsmen suffer. Outdoorsmen need to be more considerate toward those who may choose not to hunt. If we want to be viewed as informed, intelligent and caring sportsmen, we have to act like it.

Hunters are evaluated by others. Each individual hunter makes an impact. It will either be a positive one or a negative one. We must work harder at making a positive impression on those who watch. A little common sense and common courtesy couldn't hurt.

If you consider yourself a true sportsman, don't just sit idle. Get involved with organizations that support your views. Pass your knowledge and love of the outdoors along to your children and their friends by including them in some of your activities. Evaluate the reasons you hunt and be able to verbalize them. Purchase hunting licenses and duck stamps even if you can't get into the field.

Don't take hunting for granted. If you do, the next generation of sportsmen may not have the opportunity to decide whether or not they are going to hunt. That decision will have been made for them.

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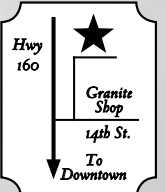


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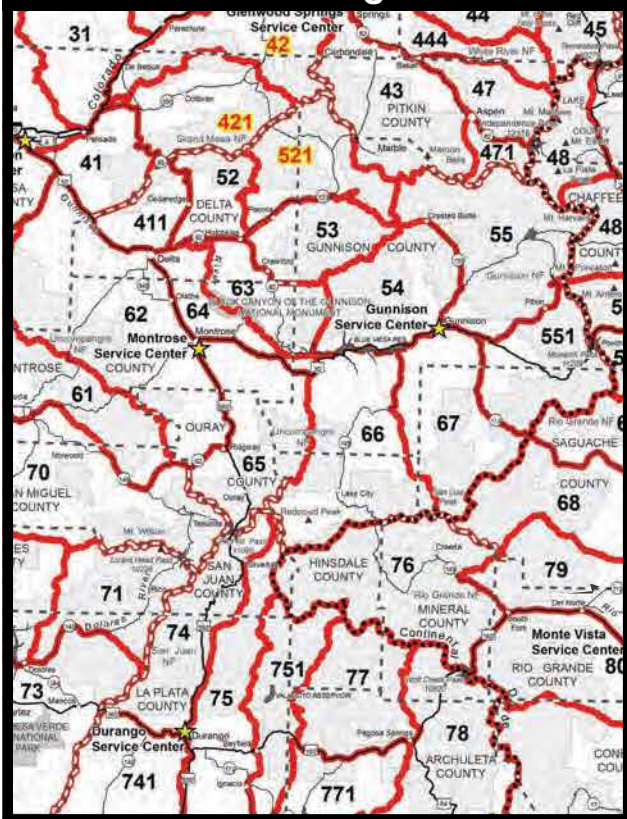
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Area Game Management Units



Be prepared for your hunt: make a checklist

By Colorado Parks and Wildlife

Preparing for a hunting trip is a major effort. Listed below are a few common items that hunters often forget as they get ready to go into the backcountry.

- First aid kit (include mole skin/duct tape for blisters)
- Compass and high-quality maps
- Fire starter for use in the field
- Knife sharpener
- Extra batteries
- Rain gear
- Blaze orange vest and cap
- Extra fuel for camp-stove
- Tire chains
- Cleaning supplies, trash bags
- Flashlight/lantern
- Game bags
- Sunscreen
- Toilet tissue
- Hunting license
- List of family/friends' phone numbers
- Extra water bottles
- Water purification pump or tablets
- 2014 Colorado Big Game Hunting brochure

Tips for hunting mule deer

By Colorado Parks and Wildlife

Hunting mule deer in Colorado is always challenging. Hunters can improve their success by understanding the habits of these critters.

During the 2013 seasons, for all manners of take, 74,233 hunters harvested 32,941 mule deer for a 44 percent success rate. It is estimated that Colorado is home to about 417,950 deer after the 2013 hunt.

In the mountains and foothills, mule deer don't spend much time in heavy timber. They are primarily browsers and prefer aspen and forest edges where there are plenty of low shrubs, small trees, oak brush and varied vegetation types.

Mule deer are most active at night and can often be found in meadow areas during low-light hours. During the day, they'll bed down in protective cover.

In warm weather, look for deer along ridgelines where wind is consistent and helps to keep them cool.

During the low-light hours of evening and morning, hunt in meadows at the edge of thick cover. If you see where they are feeding during times of low-light, it's likely they'll move into nearby timbered areas to rest for part of the day. Deer

tend to move during the middle of the day toward the areas where they feed in the evening.

A slow stalk is recommended. Spend a lot of time scanning slowly with binoculars — a deer can appear at any time.

Pay attention to the wind direction. If the wind is blowing in the direction you are moving, a deer will likely pick up your scent. Deer avoid going to creeks in daylight, so there is no advantage to hunting near moving water sources during the day.

One advantage mule deer give to hunters is their curiosity. When mule deer are spooked, they'll often run a short distance then turn to determine if they are being pursued. That may give you one good chance for a shot.

A small amount of snow will get deer moving quickly out of high-altitude areas. Usually by late October, migrating herds will move to winter range areas, even if there is no snow.

Hunters should aim at the vital organ area, which presents a small target — about the size of a dinner plate just behind the front quarter. Hunters, no matter how good they are at the range, should never try to make a head shot. Many animals are injured and die slowly because of attempted head shots.

Tips for hunting elk

By Colorado Parks and Wildlife

The popular hunting magazines often display colorful photographs of huge bull elk standing in open meadows presenting easy targets. The reality in the mountains of Colorado, however, is far different.

Stalking these animals is challenging and most hunters won't get easy shots. You're more likely to find elk on a steep hillside, in a dark ravine, or in thick timber than standing out in the open.

The hunter success rate for all manners of take in Colorado was 20 percent in 2013, and a total of 43,606 were harvested. A total of 219,166 hunters stalked elk last season. It's estimated that there are about 266,000 elk in Colorado post hunt 2013, the most of any state.

If weather is warm, elk stay spread out over vast areas at high elevations at and above timberline. In those conditions, hunters need to work extra hard. When snow falls, elk will usually start to move, bunch up, and look for food sources at lower elevations or on slopes where vegetation is exposed. However, the snowfall must be significant; usually more than a foot of snow must be on the ground to get elk moving.

Hunters must get off their ATVs and hunt slowly and quietly far from any road. Elk are very smart, move quickly at any hint of danger and hide in rugged terrain. Compounding the challenge for hunters is the fact that elk typically gather in groups of 10 or more. If one is spooked, they all move and they can run easily for a mile or more.

Elk are most active during the night and are likely to be grazing in transition areas — meadows next to heavy timber, where different types of vegetation meet and just above or below ridgelines. Hunters should watch these areas at first light and at dusk.

During the day, hunters need to move into the dark timber — cool north-facing slopes — and not be hesitant to hunt in difficult areas. Hunters should move as quietly as possible for short distances and then scan the woods for 10 minutes or more before moving again. Even in dense forest, it's a good idea to use binoculars so you can discern subtle movement or unusual colors in the trees.

If you find the areas where animals graze at night, it's likely that you'll find them in adjacent areas during the day.

When hunting in areas with roads, move far above or far below the roads to find elk. In areas where two roads are in close proximity, locate the most difficult terrain in between.

Line up your shot carefully because elk are difficult to knock down. The best shots are delivered in the critical area of the lungs and heart just behind and below the front quarters. Never try for a head shot, as this can result in only wounding the animal.

To learn more about hunting elk, check out "Elk Hunting University" on the Colorado Parks and Wildlife website: <http://cpw.state.co.us/learn/Pages/EHU.aspx>. This program gives extensive information regarding all phases of elk hunting.

Select a licensed outfitter

Guides and outfitters must be registered, bonded and insured in Colorado. They also need permits to operate on public land and must register with the Office of Outfitter Registration, 1560 Broadway, Suite 1340, Denver, CO 80202,

(303) 894-7778; www.dora.state.co.us/outfitters.

Legal, legitimate outfitters operate around the state and can provide invaluable resources for your hunting trip. Verify an outfitter's registration by contacting

the above office or Colorado Outfitters Association, www.coloradooutfitters.org. For more information regarding hunting and fishing, contact Colorado Parks and Wildlife at (303) 297-1192 or visit the website at <http://cpw.state.co.us>.

Use weed-free forage for livestock while in the backcountry

By Colorado Parks and Wildlife

As Colorado's big game season gets underway, hunters and outdoor enthusiasts are reminded of the importance of using weed-free forage for livestock while in the backcountry. Hay, straw and mulch must be certified free of noxious weeds before anyone stores or uses it on federal lands and Colorado Parks and Wildlife properties. Hay must be clearly marked by the certifying state or province.

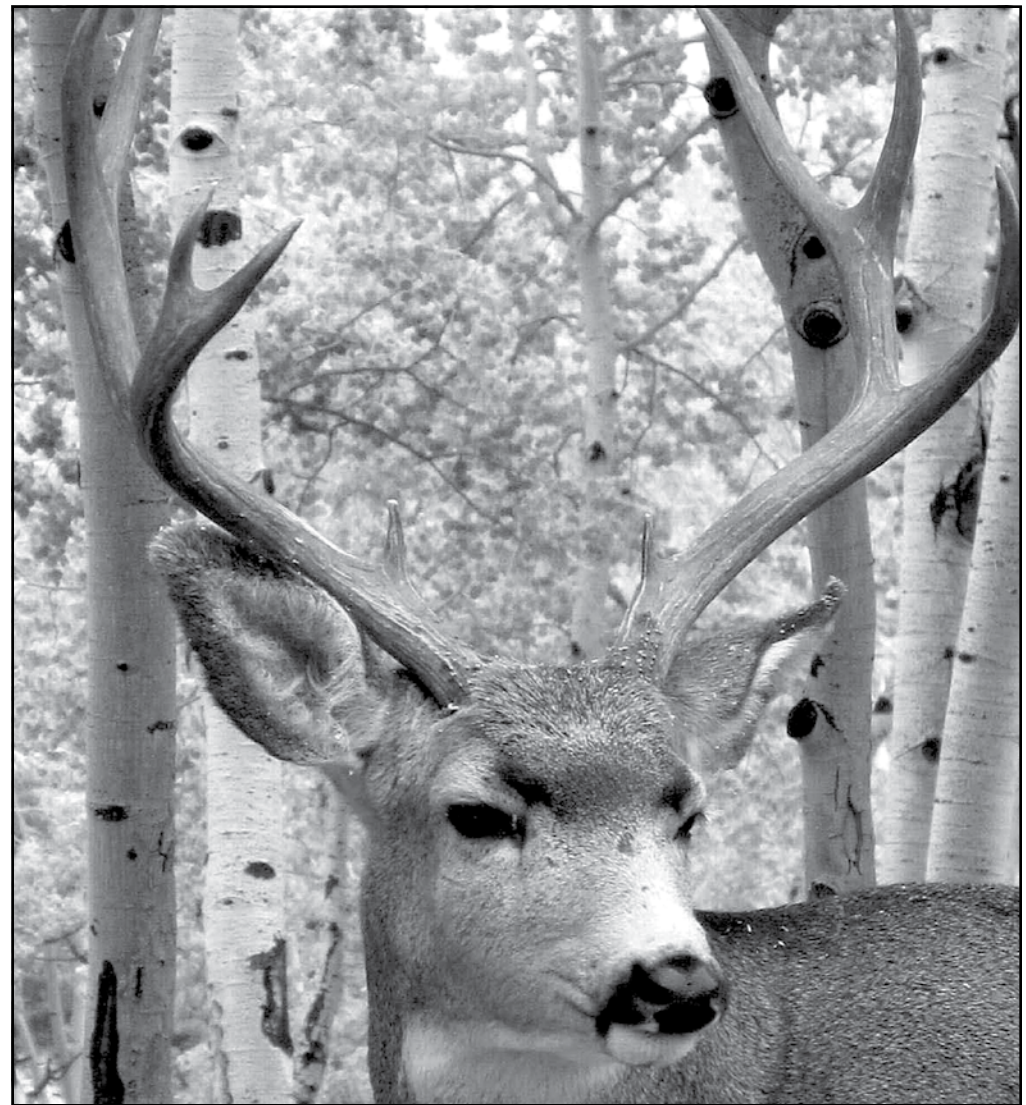
The Weed-free Forage Program, provided by the Colorado Department of Agriculture, inspects forage or mulch before it is harvested to verify there are no unwanted noxious weed parts. State agriculture and wildlife officials believe the use of certified weed-free forage and mulch helps reduce the spread of weeds.

Noxious weeds are non-native plants that often exist without the presence of any natural predators, thus giving them the ability to spread extensively and pose a severe threat to the delicate balance of our native ecosystems. Invasive species such as leafy spurge, yellow toad-flax, orange hawkweed and many others can displace native plants, causing tremendous damage to wildlife habitat and agricultural productivity in Colorado.

Colorado Parks and Wildlife encourages you to help protect the outdoor areas you recreate in by feeding weed-free forage to your riding and pack animals to help prevent the introduction and spread of noxious weeds.

Every year, the Colorado Department of Agriculture publishes a statewide directory of sources where the public can buy weed-free forage. You can also contact the Department of Agriculture by phone at (303) 239-4149. Many Colorado Parks and Wildlife offices can provide these lists, as well.

Colorado is part of a regional weed-free forage certification program along with several surrounding states. If more convenient, those who are out of state and would like to bring forage onto public land in Colorado can check with their own Department of Agriculture. If their state has a recognized weed-free forage program, bringing your state's certified forage into Colorado is fine.



David Hannigan, Colorado Parks and Wildlife

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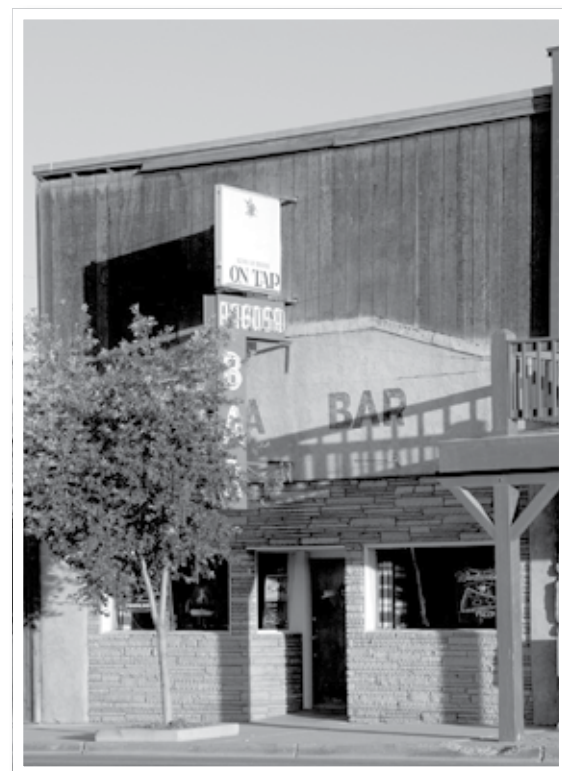


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Operation Game Thief rewards citizens who turn in poachers

By Colorado Parks and Wildlife

Operation Game Thief is a Colorado Parks and Wildlife program that pays rewards to citizens who turn in poachers. You can reach them toll-free within Colorado at (877) COLO-OGT.

Callers do not have to reveal their names or testify in court. A reward of \$500 is offered for information on cases involving big game or endangered species, while \$250 is offered for information on turkey and \$100 for fishing and small game cases. A citizen committee administers the reward fund, which is maintained by private contributions. The board may approve rewards of up to \$1,000 for flagrant cases. Rewards are paid for information that leads to an arrest or a citation being issued.

Why do we have it?

In the entire state of Colorado, there are 122 district wildlife managers — so, wildlife needs your eyes and ears to report known or suspected violations. Poaching is a serious and costly crime. It robs legitimate sportsmen of game and fish, robs businesses and taxpayers of revenues generated by hunting and fishing, and robs all of us of a valuable natural resource — our wildlife.

Is poaching significant?

Yes. No one knows the exact figures, but studies indicate poachers may kill almost as many animals and fish as legitimate hunters take during legal seasons. If poachers kill even half that number each year, the problem is serious. Poachers do not confine their killing only to game animals. Threatened, endangered and nongame wildlife show up in poachers' bags, as well.

Who are the poachers?

Poaching is surrounded by romantic myths, which just aren't true. Poachers are not poor people trying to feed their families. In fact, putting food on the table is one of the least common

motives for poaching. Poachers kill for the thrill of killing, to lash out at wildlife laws, for profit and for horns and antlers. They kill wildlife any way, time and place they can. Poaching rings can be well organized and extremely profitable. In a nutshell, poachers are criminals and should be dealt with as criminals.

Does it work?

Yes. Operation Game Thief was pioneered by the New Mexico Department of Game and Fish and has been adopted by 49 of the 50 states, including Colorado. Since 1981, Colorado's Operation Game Thief has received more than 2,400 reports of poaching, resulting in more than 700 convictions. These convictions have netted over \$600,000 in fines and have resulted in the seizure of more than 1,300 illegally taken animals. During this period, almost \$130,000 in rewards has been paid to citizens who reported suspected illegal activity.



SUN photo/Lindsey Bright

A line of European elk skull mounts lines the floor of a local taxidermy showroom. The number of bull elk harvested in Archuleta County during the 2011 hunting seasons was so large that two other rooms at this taxidermist's facility are also full of elk antlers.

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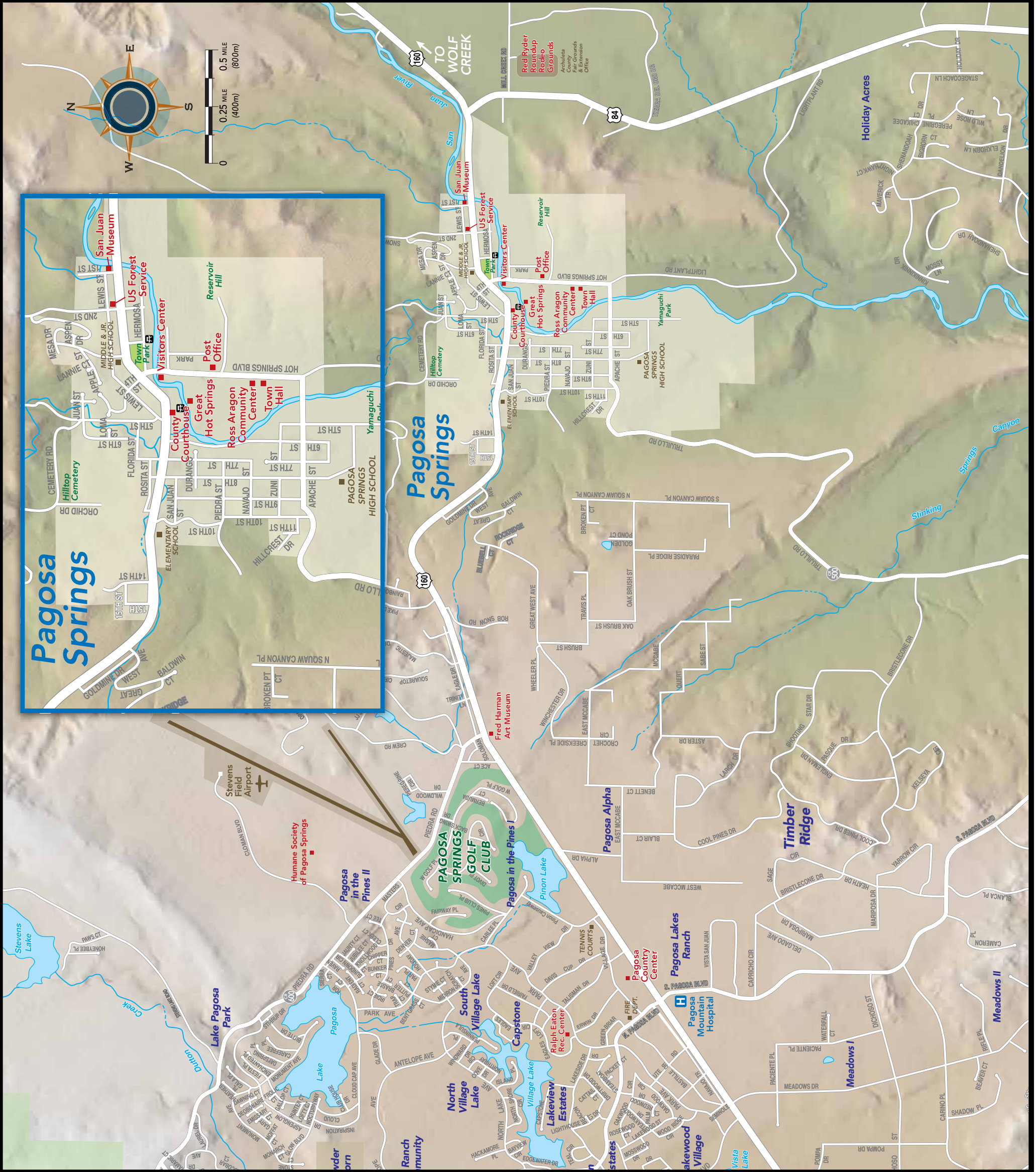
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Pagosa Springs Map



Pagosa Springs Area Recreation Map



Colorado Big Game License Options Elk, Deer, Bear, Pronghorn and Moose

By Colorado Parks and Wildlife

Colorado's Big Game Licenses

Colorado offers many types of big game licenses and options for purchasing them. Hunters — resident and non-resident — can select from rifle, muzzleloader and archery seasons by species and by specific units (or “hunting units,” “Game Management Units,” “GMUs”).

Licenses are sold from three main categories:

1. Limited Licenses are available by application; the deadline to apply is always the first week in April. Limited licenses are sold out for the 2014 season.

2. Over-the-counter Licenses (available in July).

3. Leftover Limited Licenses (available in August).

To ensure you have the license you want for the fall, apply in the spring!

Limited licenses by drawing

• The first opportunity to purchase big game licenses is through a “drawing” (lottery-like drawing) that comes after the application deadline.

• Applications are due before midnight on the first Tuesday in April, each year.

• You can submit your application online or by mail (a mail-in application comes with the Colorado Big Game Brochure; available in mid-February each year).

• Application allows you to request up to four hunt code choices, and other license choices.

• License prices are published in the Colorado Big Game Brochure and online on the Big Game Season Dates and Fees page. Apply early to avoid any last-minute online rush.

Limited licenses

These are big game licenses that are limited in number for specific units (GMUs) and hunting seasons. These are distributed through the license application and drawing process.

Youth (youth are 12 to 17 years old) limited licenses are available at a reduced cost. Youth can also benefit by receiving preference for many draw units.

Other types of limited licenses

• Private-Land-Only Licenses: These licenses are limited in number for specific units and are to be used only on private land. They have specific season hunt dates. You must obtain landowner permission before hunting on private land.

• Ranching for Wildlife Licenses: Available only to Colorado residents, hunters may apply for these licenses through the application and drawing process for specific seasons and ranches. Each ranch has specific rules for hunting on their property; these are not private-land-only licenses. Check the Ranching for Wildlife restrictions before applying.

Would you rather hunt than get a refund?

If you are unsuccessful in getting your first choice in the application and drawing process — you have options! To use one of the following options, check the appropriate “If unsuccessful, send me ...” option on the application (available for elk, deer and pronghorn).



Michael Seraphin, Colorado Parks and Wildlife

• Leftover Draw Option (elk and deer applications only). Elk and deer applicants can have first choice of the limited licenses that are leftover from the drawing process by checking one of the choices under the “Leftover Draw” option box on the application. In June, you will be mailed the list of the leftover limited licenses still available and an application. Return that application so you get first choice of any of the leftover licenses before they go on sale to everyone in August.

Don't see anything you want on the leftover list? You can still purchase an over-the-counter (OTC) license or request a refund.

• Elk or Pronghorn Over-the-Counter Licenses.

OTC antlered (bull) elk licenses are available for your choice of second or third rifle season. These licenses can be used to hunt in 93 GMUs across Colorado.

For pronghorn hunters, OTC either-sex, archery licenses allow you to hunt in numerous units around the state.

If you choose this “if unsuccessful” option, your license will be mailed directly to you — no need to visit a CPW office or agent, or phone-in or purchase online.

The applicable maps for these OTC licenses are in the “species” sections of the Colorado Big Game Brochure and can be downloaded online. (Map of bull and either-sex elk units offering OTC licenses and a map of either-sex elk units.)

• Preference Points.

Preference points increase your chances of drawing a limited license and are awarded by species. Preference points are earned automatically when you don't get your first hunt choice. They cannot be used the same year they are earned. If you can't hunt this year, but intend to in the future, you can apply for just a preference point by entering the “preference point only” hunt code in the “1st choice hunt code” boxes on the application and submitting it with the license payment for each species. The license portion

of the payment will automatically be refunded to you. (If you do not qualify for a free preference point, a \$40 charge will be taken from the refund; see the Colorado Big Game Brochure for details.)

Over-the-counter licenses (available starting Aug. 5)

• Over-the-Counter Unlimited Licenses: These are antlered (bull) elk licenses available to resident and non-resident hunters for second or third rifle season. These licenses can be used to hunt in 93 GMUs across Colorado.

The OTC either-sex, archery, pronghorn licenses allow hunting in numerous units around the state. The applicable maps of these units are in the species sections of the brochure and can be downloaded online. (Map of bull elk units offering OTC licenses.)

No application is necessary to purchase OTC licenses — they went on sale at 9 a.m. MST, Aug. 5. These are sold online, by phone at (800) 244-5613, at license agents, and at CPW offices around the state. OTC licenses provide you the flexibility to discover new units, scout different habitat and, potentially, combine your elk hunt with the opportunity to hunt another species.

• Over-the-Counter Licenses with Caps: A preset number of bear, antlerless elk and either-sex elk licenses are available for specific units and specific seasons on a first-come, first-served basis for resident and non-resident hunters. These are called licenses “with caps.” They are sold online, by phone at (800) 244-5613 or at CPW offices and license agents starting at 9 a.m. MST, Aug. 5.

Leftover Limited Licenses (available starting Aug. 5)

• Leftover Limited Licenses: These are the limited licenses remaining after the limited license draw and leftover draw processes. They go on sale to the public at 9 a.m. MST, Aug. 5. They are sold at license agents, CPW offices, and by phone at (800) 244-5613. They are available for online purchase starting Aug. 6.

Before you buy: Required information

1. Hunter education: Everyone born on or after Jan. 1, 1949, must hold a valid hunter education card/certificate before applying for or purchasing any hunting license or before applying for a preference point. Your hunter education card/certificate and the appropriate license(s) must be in your possession while hunting.

2. Social Security Number: As required by the Colorado Support Enforcement Act, established by HB 97-1205 and implemented through 24-33-110 C.R.S., your Social Security Number (SSN) is required to purchase or apply for all CPW licenses. Your SSN is not shown on your license. It is provided, when requested, to the Colorado Department of Human Services, Child Support Enforcement, as required by law and is used to enforce the law.

3. Photo I.D.: Be aware, also, that a photo I.D. is required for all license purchases. Proof of residency is also required for Colorado residents.

Understanding Colorado's Preference Point System

By Colorado Parks and Wildlife

To manage big game animals and to assure sustainable hunting opportunities and resource preservation, Colorado Parks and Wildlife issues a limited number of licenses through a drawing process for most species.

For big game, over-the-counter licenses are available in most areas of the state only for bull elk during the second and third seasons.

Hunters who want licenses for deer, elk in limited units and for the first and fourth seasons and other big game must apply annually.

If you do not apply or hold a license for that species at least once within 10 consecutive years for a bear, elk, deer or pronghorn, your preference points for that species will be lost.

Here's how the application and draw system works:

Hunters apply for licenses and submit up to four choices for the Game Management Units desired. Applicants who don't get their first choice get a preference point for that unit. An applicant can also purchase one point each year for \$40. However, no more than one preference point per species can be awarded in a year. Points are awarded for each individual species.

The number of preference points needed to draw a license depends on the species, season and the particular game management unit. For the most coveted units, hunters must accumulate numerous preference points to have a chance to obtain a license in the draw.

There are four separate elk seasons in Colorado. For the second and fourth seasons, hunters can buy an over-the-counter license that can be used in most Game Management Units throughout the state. No preference points or special applications are needed. Applications are necessary for people who want to hunt during the first or fourth seasons and for most units, hunters must have accumulated some preference points.

The number of points needed varies from one Game Management Unit to another. Some units require 10 or more points, while some units require only one or even zero preference points. The annual draw is the first Tuesday in April, so hunters can start doing research on the Colorado Parks and Wildlife website in late winter to find out how many points are needed for the unit where they want to hunt.

If you want to accumulate points for a preferred unit, but you still want to hunt in that season, apply your first

choice to the coveted unit but pick units with zero point requirements for your subsequent choices. Preference points continue to accumulate until you receive a first-choice license.

Parks and Wildlife maintains a permanent preference point record for everyone who applies. The record is automatically referenced when a hunter applies for a unit that requires points.

Most big game licenses are reserved for Colorado residents. For units and species that require five or more preference points, 80 percent of the licenses are allocated to residents, the remainder to non-residents. If fewer than five preference points are needed, 65 percent of the licenses are allocated for state residents and the remainder for non-residents.

A complete explanation for all species and a list of preference-point requirements for the upcoming season is published each year in the March/April edition of Colorado Outdoors. The information is also published on the website, cpw.state.co.us.

The deadline to apply for limited licenses is always held on the first Tuesday in April. Results are posted on the website by early June.

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Moose or elk?

Be sure to know the difference

By Colorado Parks and Wildlife

Reintroduced to Colorado nearly 30 years ago, moose are thriving in many parts of the state. Unfortunately, almost every year hunters accidentally shoot moose. During the 2011 big game seasons, more than a dozen moose were killed by elk hunters who thought they were shooting at cow elk.

Elk hunters need to be sure to know the difference between these two ungulates. If a hunter without the proper license shoots a moose, the fine can be more than \$1,000 and hunting privileges can be lost.

Moose are the largest members of the deer family and have adapted to a variety of habitats. They favor willows along streams and ponds. But be aware, some moose also inhabit lodgepole pine, oak brush, aspen, spruce, fir and even sagebrush — in other words, the same areas where elk live. Moose can be found in almost any high-country habitat area of Colorado.

There's no excuse for mistaking these animals. They are vastly different in size, color, antler shape and habits. A mature Shiras bull moose weighs 1,200 pounds — about twice as much as the average bull elk. Moose are dark brown and appear almost black. Elk are light brown — a bull elk can be almost golden — with a pale yellow rump.

A moose has a very large, long and bulbous nose and a “bell” under the throat. An elk's snout is much narrower and it has no “bell.” A mature bull moose has broad, flat antlers, unlike the pointed antlers of an elk. But the antlers on some young bull moose have not flattened out yet, so hunters need to look over the entire animal before pulling the trigger.

Moose act very differently than elk, however, when approached by humans. Typically, moose will not flee like elk at the sight of a hunter, which makes them easier to kill. So if it sees you and doesn't run, it's probably a moose.

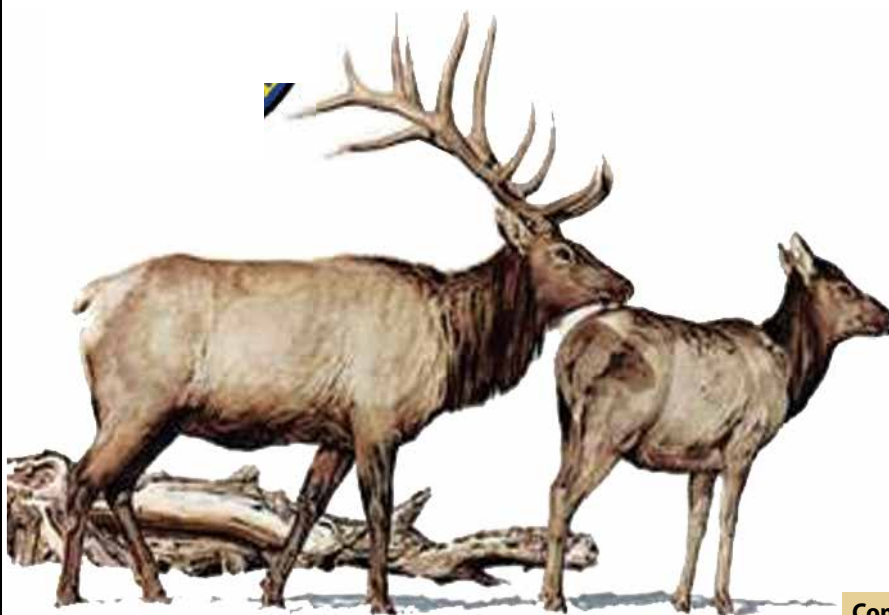
Despite these readily apparent differences, every hunting season brings a number of illegal moose kills. Circumstances vary from mistaken identity by hunters to blatant poaching. The common denominator in most accidental kills is that the hunter is not using other optical aids besides the rifle scope. Always carry binoculars or a spotting scope to help you properly identify the species you are hunting.

The first moose to reach Colorado — 12 from Utah — were transplanted by wildlife biologists in the North Park region near Walden in 1978. The next year, another dozen were released in the Illinois River drainage, also in North Park. Some of these moose moved into the Laramie River Valley and, in 1987, an additional 12 animals were brought in from Wyoming. By 1991, the North Park population was doing so well that some of those moose were moved to the upper Rio Grande drainage near Creede. In 2005 and 2006, moose from Utah were transplanted on the Grand Mesa. In the summer of 2008, the DOW brought a few moose from Utah to supplement the small herd in the La Garita mountains south of Gunnison.

Elk Hunters: Be Aware of Your Target!

Moose can be found in the same habitat as elk in Colorado. Make sure you know the difference between these two species, so you don't accidentally kill a moose. Use your binoculars, not scopes. Don't just look at the animal's antlers; study the entire head before you shoot.

Elk & Moose Comparison



Bull Elk

- Slender snout
- Pale yellow rump
- Chestnut-brown neck
- Reddish, lighter brown body
- Darker legs
- Antlers not palmated
- Obvious brow tines coming off main beam.

Cow Elk

- Slender snout
- Pale yellow rump
- Chestnut-brown neck
- Reddish, lighter brown body
- Darker legs

Confusing Calves

Be very careful you don't mistake a moose calf with an antlerless elk. Young moose have a reddish coat, similar to elk!

Bull Moose

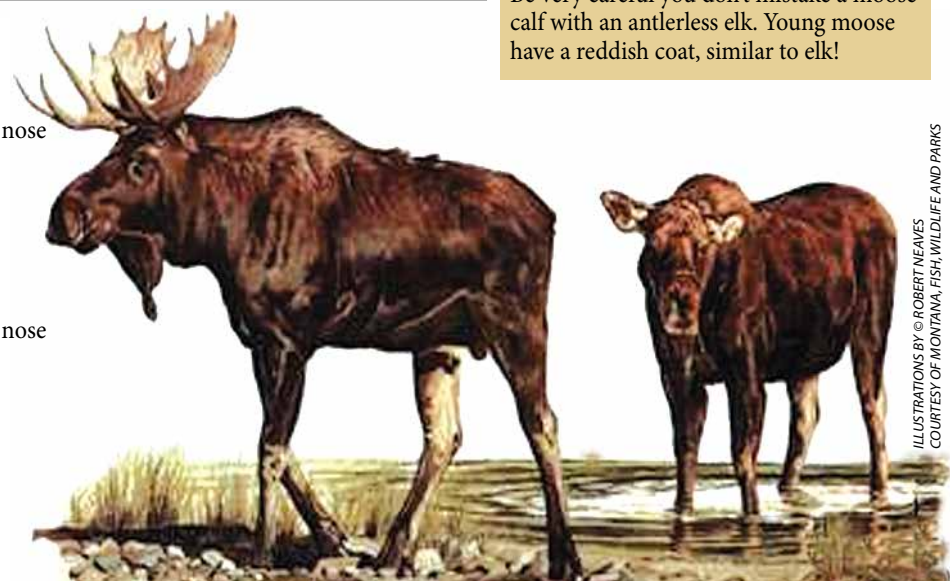
- Dark, black-brown body
- Overhanging snout, bulbous nose
- Larger bell (beard) on throat
- Whitish-gray legs
- Palmated antlers with tines

Cow Moose

- Dark, black-brown body
- Overhanging snout, bulbous nose
- Bell (beard) on throat
- Whitish-gray legs

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High-altitude survival tips

By Colorado Parks and Wildlife

Hunters must remember that altitude can affect their health and their ability to move easily, and in the Rockies, weather can change quickly, with fast-moving storms dumping a couple of feet of snow in just a few hours.

Be prepared for all types of weather — wet, cold, dry and hot. Take appropriate clothing and the right camping gear. If possible, especially for those coming from lower altitudes, spend a few days at higher elevation before hunting to allow your body to acclimate.

Heavy snowfall can occur starting in September. High-country hunters need to watch the weather closely and pick their escape routes. Snow can hide trails or make them impassable.

Survival experts recommend that you never go into a wilderness area alone. Unavoidable accidents do happen. Learn how to use a compass, take a map of the area and orient yourself before leaving camp. Explain to your hunting partners where you'll be going and when you plan to return.

Always carry a survival kit and know how to use it. Such a kit should include a knife, waterproof matches, fire starter, compass, reflective survival blanket, high-energy food, water purification tablets, first aid kit, whistle

and unbreakable signal mirror.

If you get lost, sit down, regain your composure, and think for a few minutes. Many times people who are lost can figure out where they went wrong and make it back to camp. If you truly don't know where you are, stay put.

Survival experts explain that survival is 80 percent attitude, 10 percent equipment and 10 percent skill and knowledge.

If you are caught in a storm or forced to spend the night out, there are three keys to survival: shelter, fire and signal.

If you can't find camp and have to overnight in the wild, your first priority is shelter. Even if you have nothing else going for you — no fire or food — an adequate shelter that is warm and dry will keep you alive until rescuers find you. That means anything from an overhanging rock shelf to a cave, a timber lean-to or snow cave. Cut boughs from evergreen trees and use them as padding and for covering.

Dress in layers and take extras with you. Put on layers before you become chilled and take off a layer before you become damp with perspiration. Staying warm is a process of staying dry. Do not dress in cotton — it becomes wet easily and is difficult to dry. Use wool, wool blends or synthetic clothing that wicks moisture away from skin.

Be sure to carry a quality stocking cap that is made of wool or synthetic fleece. You lose up to 45 percent of your heat around your head, neck and shoulders. Winter headgear should conserve heat, breathe and be water repellent. The old saying, "If your feet are cold, put your hat on," is good advice.

Use waterproof footwear, wool or synthetic socks, and always remember to carry gloves.

Fire is the second priority if you are forced to stay out overnight. Know how to build a fire even in wet or snowy conditions. That means carrying a lighter, metal matches or wooden matches in waterproof containers and a fire-starter — such as steel wool, cotton or sawdust saturated with paint thinner or alcohol. Camping stores sell a variety of fire starters. Experiment with various materials before going into the field. A fire will warm your body, dry your clothes, cook your food and help you to signal for help.

The third priority is signaling. This can be done by fire — flames at night or smoke from green branches during the day; with a signal mirror in bright sunshine; and with sound — hence the whistle.

You can live up to three or four weeks without food. You will, however, be more efficient and alert, and have more confidence if you

are able to satisfy your hunger. So, carry some high-energy food in your survival kit.

Water is more important to survival than food. Your body needs about three quarts of water a day to metabolize its energy reserves and carry away waste. Carry iodine tablets to add to water taken from streams or snow banks. Avoid drinking ice-cold water, which can cause your body temperature to drop.

Altitude sickness is another danger. Hunters who are fatigued, cold or exhausted are vulnerable. At the very least, altitude sickness can ruin a hunting trip; at the worst, it can be fatal.

Take time to acclimate and do not move quickly above 8,000 feet. Symptoms of altitude sickness include shortness of breath, fatigue, nausea, headache and loss of appetite. To avoid altitude sickness, get in shape, limit alcohol consumption, acclimate for a few days before the start of the season and drink lots of water. Staying hydrated is a key factor in reducing your chances of getting altitude sickness.

Hunters with heart problems should be extra careful in Colorado's high country. To prevent problems, hunters should consult with their doctors before going to the high country. If you have a heart condition, you should keep any prescribed medication with you at all times.



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Stop and smell the urine!

And other helpful elk hunting advice

By Bill Haggerty

How do you know you're close to elk when you can't see them and you can't hear them?

"When you smell fresh urine," said the ever-eloquent John Ellenberger. "It's like a slap in the face. You know you're REAL close."

Ellenberger knows that smell.

He's been real close to elk.

Of course, part of his job is to know about elk. All about elk. Even about the smell of elk urine.

For years, Ellenberger has been the senior terrestrial biologist for the Colorado Parks and Wildlife's northwest region, based in Grand Junction. Before that, he was the district wildlife manager for the Crested Butte area.

He's hunted all his life. He's trapped and released hundreds of elk throughout his career. He's studied them, read about them, counted them from helicopters and small-engine airplanes.

He's been real close to elk.

But does he harvest one every year he goes hunting?

"No. So what's your point?" he said grinning.

"You can't always get what you want, but if you try sometime, you just might find, you get what you need." A good slap in the face.

Let's face it. Most of us don't harvest an elk each and every year. In fact, the state average is about 24-percent success for hunters — that's all rifle seasons and archery.

Ellenberger said, simply, most hunters rush things.

"Most hunters are in too big a hurry. They cover too much ground. Then, when they do blunder into elk, they bust 'em out before they know the elk are there.

"You can boogie if you're in country where there are no signs of elk," Ellenberger said, "but if you're in good country with good signs, slow down. Try to heighten your senses and be aware of what's going on."

Stop and smell the urine!

But, gee, Mr. Natural, how do I know if I'm in good elk country?

Hopefully, you've done your homework prior to the hunt. Ellenberger stressed that hunters should learn as much as possible about life history, habits, habitat and behavior. What kind of habitat do elk use in August? How about December? Which units have high elk numbers? Which units have a lot of public property with adequate access?

Once you've decided on a hunting unit, get the appropriate maps and head out on a scouting trip. Become familiar with the country. Then, stick to it.

"Don't jump from unit to unit each year," Ellenberger said. "You'll never get to know the area, and you really limit your chances of success."

Next, learn how to use your binoculars or spotting scope. "Glass, glass, glass," the biologist insisted, "especially in the early morning and late afternoon. You'll do a lot better if you sit down and glass. Look for animals bedding down or up feeding somewhere. Once you find them, then you can figure out a plan on how to hunt the animals. But trying to get out early in the morning and run into something without prior knowledge of where the elk are — that's real tough.

"Hunters need to remember that when they're out there

hiking around, the animals have the upper hand," Ellenberger explained.

"They have superior sight, smell and hearing. They do this for a living, 365 days a year. They hold all the cards, so you have to do what you can to turn it in your favor."

For example, he said, "Most guys use the bull call lots more than they should. Maybe that has potential when you're trying to locate other bulls during archery or muzzle loading rifle seasons. But after that, you don't want to sound like the biggest, baddest bull on the mountain. What bull with a harem of cows wants to challenge some bad bull that's going to kick him off his own mountain?"

Instead, Ellenberger suggested cow calls and calf squeals. If you know how to use a cow call or you can squeal like a calf elk, then once you locate a bull, you can try the cow call or the squeal.

"My experience is that when you use it, the bull won't answer, but he's looking. He'll circle and try to get your scent on the wind, so even if he doesn't call back, lots of times elk will move toward you.

Once, Ellenberger recalled, "I had a bull come within eight feet because I paced it off. I had him close enough to see his nostrils flare when he breathed. I could see his eyelashes when he blinked. He kept coming closer and closer and finally winded me before he stepped on me. Then, he ran away about 30 or 40 yards and I called again. He stopped dead in his tracks, turned and stared and stayed another few minutes."

Of course, Ellenberger practices and practices with the calls. And, he's had good opportunities to see how they work.

"I've even had cow elk in an elk trap walk up to me face to face to see what I was after using a call."

He advised hunters not to use a call if they don't know how.

"If you can use one and if the elk don't know you're there and haven't winded you, you can do some incredible things with a cow call," he said. "Even during the rut, the cow call is deadly on the bulls. They'll come closer to you, especially if a bull has a harem. He may not challenge another bull, but he'll sure chase after another cow."

Once you find the animal and you're ready to take your shot, hunters underestimate how strong and how powerful elk are. Even with big guns and magnum loads, Ellenberger said he's seen elk shot through the lungs, "and you can't even tell the elk has been shot."

The biologist tells hunters to be extra careful shooting into a group of running elk.

"You may be taking lethal shots and not know it. All of a sudden, you have three dead elk on the ground. Make sure where you place your shot, then don't take your eyes off the animal you first shot at. If you shoot in a group and animals start milling around, watch closely. Eventually, your animal will go down. But if you keep shooting, you may end up with more than you bargained for."

How about tracking?

"I've thought at times I was fairly good at reading tracks," Ellenberger insisted. "But I've gotten onto tracks that I thought may have been made that morning, only to find out it was probably made a day before. No sense in following that track."

Nonetheless, the biologist said, "If you see elk 300 or 400

yards ahead of you, it's a good idea to get on the track and go slow, but don't move too quick. You don't want to blow them out."

Just finding track, however, and not knowing how long it's been on the ground, is a different story. "The elk may have run into the next county, and it may not be worth it at all to stay on that track. But if you see the animal from a distance and you can find the tracks, sure, go for it."

Even on the snow, in moist conditions, Ellenberger said, "It's a crap shoot. Maybe you can get on those elk, but first, the track is probably older than you think, and, second, even if it shows they're not running, elk still move at a fairly rapid rate and you'll never catch them.

"If you get on a track and you haven't jumped animals within about a half a mile, there's not much chance. Change plans."

If you use binoculars and spot elk, and they're not spooked, "analyze terrain and cover. Plan an appropriate stalk to get close enough to the animal for a good shot," Ellenberger said.

"Again, keep in mind wind conditions at all times."

Another method of elk hunting, if you don't see the animals, is the time-honored method of stand hunting.

"Large herds of elk reside on public land," Ellenberger noted. "Obviously, this is where large numbers of hunters are found."

If you're in one of these areas, Ellenberger suggested locating a spot frequented by elk. Then, find a good place, sit and be patient. Count on other hunters to move animals to you.

A good place may be a saddle on a ridge where elk may pass or a small park at the upper end of a drainage near a saddle.

"Put yourself near any spot that would offer an obvious escape route for elk," the biologist said.

Another proven elk hunting method is "the drive." This involves placing stand hunters at strategic locations, such as dense cover, escape routes or openings that can be crossed by moving elk. When the stand hunters are in place, another group of hunters moves through the cover, pushing elk out of hiding or resting areas.

Of course, there are problems with this method. First, stand hunters must make sure of their line of fire. "Safety is a problem because you don't necessarily see all the other hunters you're working with. Also, there may be other hunters in the area that you are unaware of."

Second, the method may require a larger group of hunters than you normally hunt with. Ellenberger insisted, however, that this method can be successful with one or two stand hunters and one driver hunter.

The third problem is that if you severely spook the elk, "they're long gone and they may not come back to that area for days."

The fourth problem Ellenberger sees with a drive is that the animals are usually running. They have a high adrenaline flow, and you may end up with some tough meat. Worse, the animal may be only wounded and must be tracked for long distances.

Finally, whether you're on a drive, a stand or a stalk, be patient. "It always takes longer than you think."

Stop and smell the urine. It may be the slap in the face you need.

Use ATVs properly; and know the laws

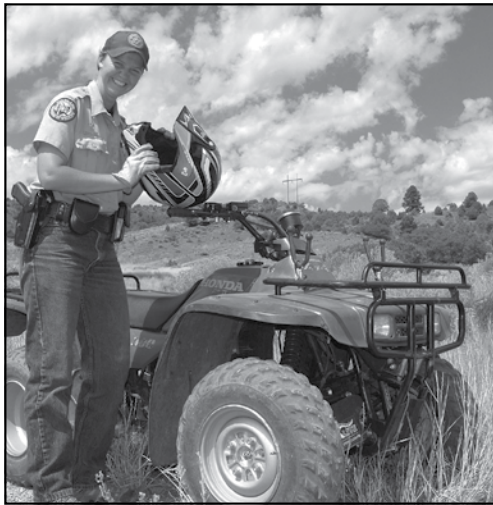
By Colorado Parks and Wildlife

The number of all-terrain vehicles used during hunting seasons has been increasing steadily during the last five years. While the vehicles can be useful tools to aid in a hunt, some hunters are using them improperly and causing a variety of problems.

Hunters must be aware of Colorado ATV rules, local regulations and new federal travel management regulations for national forests and BLM lands.

All ATVs must be registered in Colorado. Your home-state registration is not valid. To register your vehicle, call the Colorado Parks and Wildlife office at (303) 791-1920 or go to the website, cpw.state.co.us.

On national forest lands, and generally on BLM lands, ATV travel is allowed only on roads and trails designated for such use. Roads and trails open to motorized use will be signed as "open," or be shown as open on forest service and BLM travel maps. It is recommended that you consult with the local forest service or BLM office prior to your trip to make sure you understand travel regulations in your hunting area. Federal fines, up to \$500 per incident, may be levied for violations of travel management regulations.



Joe Lewandowski, Colorado Parks and Wildlife

Colorado wildlife officers are authorized to write tickets for illegal ATV use. Besides the federal fines, violators who are using ATVs while hunting, fishing or trapping will be assessed penalty points against their license privileges: 10 points for most violations, 15 points for riding into wilderness areas. Hunters who accumulate 20 penalty points lose their ability to buy hunting or fishing licenses for at least one year.

Cary Carron, a district wildlife manager in Bayfield, explained that hunters must get

off their ATVs if they expect to see any big game animals.

"There are some hunters who drive around on ATVs all day and then they complain that they're not seeing any animals," Carron said.

The constant drone of ATVs also causes problems for other hunters. ATVs are noisy and cause animals to move deep into inaccessible territory. Just one vehicle can cause problems for numerous hunters.

"There is getting to be a real backlash against ATVs from people who actually get out there and hunt the way they're supposed to," Carron said.

Big game hunters who wish to be successful must walk slowly and quietly well away from roads. It is unlikely during hunting season that a hunter will see a big game animal from the road. And, if an animal is spotted, a hunter doesn't have time to get off the vehicle, take a rifle or bow out of its case, load the weapon and move off the road to take a shot.

Besides disturbing animals and other hunters, ATVs used improperly can cause resource damage when they are driven off of established roads and trails. That action can destroy vegetation, compact soil and lead to

stream and water-quality degradation.

Please, remember these rules and guidelines:

- Rifles and bows carried on ATVs must be completely unloaded and secured in a case.
- Be sure to check with local U.S. Forest Service and BLM offices for the local travel management plans on the national forest or for the BLM district in which you will be hunting.
- Game retrieval off of roads and trails designated for motorized use is not allowed on national forests in Colorado, with the exception of limited allowances on the Rio Grande National Forest. Check with local BLM and forest service offices for specific game-retrieval policies.
- ATVs cannot be driven into designated wilderness areas.
- Be careful not to trespass onto private roads.
- Be considerate of other hunters. Drive slowly to reduce noise; drive only to areas where you will begin to walk; don't hunt from the road.
- Explain these rules and guidelines to young hunters and those unfamiliar with proper ATV use.



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Archery elk hunting: Hunting up close

By Alan Hannasch and Jason Garnett
Colorado Parks and Wildlife

For most of us, hunting is a lifelong pursuit. We have developed (over the years) a routine that begins every year around the first of February and, in one way or another, finds us in the Colorado high country in late August and early September. It seems second nature to expect big game brochures to arrive in the mailbox, an “alarm clock” announcing the new hunting season. After a few planning sessions with our hunting partners, we decide on hunt units and species. Sometime before the April deadline, we apply for our “tags” and, after a month or so of anxious waiting, we get draw results off the ‘net. We spend the next three months or so scouting our hunting units, usually not as often as we would like (and, at the same time, more often than our better halves would prefer). Two or three days before opening weekend, we are off to the woods. For the next four weeks, we are in our element! Sounds great, right? It is.

Not everybody has had enough experience, however, to develop a routine. Whether you are a longtime hunter new to Colorado, an out-of-state guest or a first-time archery hunter, we sincerely hope this article will help you experience the true wonder of early season hunting in the state that hosts one of the largest herd of elk in the world! Archery hunting can be the most exhilarating experience a sportsman or -woman can imagine. The absence of city noise, the hubbub of modern life, the relaxed attitude of animals that haven’t been hunted all year and the usually mild weather make for an unforgettable good time.

During the dog days of summer, your pre-hunting activities are kicked into high gear. Final scouting trips should be planned and your maps marked. Target practice is very important at this point, and by now you should be hitting in groups of four inches to a maximum of six inches at 30 yards. If you plan on using an elk call, you should be comfortable with it; please don’t practice on elk while sitting in your car at the side of the road — elk learn fast!

Spend some time looking at the Game Management Unit (GMU) interactive maps. The Elk Migration and Travel Corridors map shows you where to focus efforts and mark GPS points.

As the hunt draws near, spend time in the forest (not necessarily where you’ll hunt) and practice making tough uphill, and downhill shots (check forest regulations first). It’s also a good time to judge distances before pulling out the range finder to verify your guess.

Go back over your hunt plan.

When it comes time to start packing for a hunt, start a couple weeks early to check gear before it’s packed and loaded into the camper. The camper is used as a base camp (which can easily be substituted with a tent/wall tent). For this article’s “hunt,” we did not take into con-

sideration the use of any off-highway vehicles (OHV) or horses.

Making a list and checking it off is helpful; try making a list of all the gear you take and separate it into two categories — gear for a backpack hunt and gear for a base camp or static hunt from a fixed tent. If you decide to use a base camp, you can then configure your pack with essential gear you need to carry and know what weight you are carrying. Knowing weights of items beforehand comes in handy when planning to carry a backpack! Packaged goods are unwrapped and sealed in plastic bags that can be reused for hauling trash back out. Conserving weight by carrying items that serve more than one purpose is a good practice; the multi-purpose tool, for example. It has a saw blade that will get you by in the backcountry to cut branches for firewood, elk pelvis and ribs, and a sharp blade that can take care of an elk. Don’t forget to bring extra coolers — a quartered elk will fill two king-sized coolers.

No matter how well you plan, you can count on one thing: The elk have complete disregard of your plan. Be flexible. No secret here — elk are where you find them, sometimes hunting from base camp will keep you in elk range. But you may have to follow the herd. Having a backpack ready to go might be your best option and planning for more than one scenario can increase your odds of success. My preference is packing a mid-sized backpack to carry emergency items, along with sufficient supplies to field dress an elk, and even having a game bag or two will save an extra trip back to camp.

Archery season can bring hot days and cold nights; don’t be surprised by early snow, rain with lightning, sleet — even all of the above in one day. Dress in layers; most days start off frosty-cold in the morning to mid-day sun in the 80s. Especially important: These days, you can carry one of a number of devices that allow you to send messages and/or emergency location signals. The peace of mind is priceless.

Your food supplies are a personal choice, and for day hunts be sure to have nutritional bars and plenty of water. During the archery season, you have more daylight hours, which make for a long day in the field. Getting back to camp and cooking a meal and then cleaning up (being bear aware) is a lot of effort. Simple heat-and-serve meals might be considered.

Now it’s time to head out to your elk camp; always leave a map and specific information about location, arrival and departure times with someone at home. Pre-arranged call times are a good idea if that can be arranged, as well. Before you leave, get a 10-day weather forecast and print it out. Have a list of phone numbers that you can carry in case of emergencies — and don’t forget your hunting license. One last check of the bow and a final

practice round before the hunt are in order; by now, your confidence in your shooting needs to be high.

It does not matter where you set up your elk camp — bears will be in the area.

Once in the field, a host of decisions must be made. Should you call to the elk or just move slowly through the woods and hope to intercept them? If you have had time to scout your area extensively, you can try to set up on a wallow, water hole, game trail or elk crossing and wait them out. If your scouting has been limited, spot and stalk may be the ticket. Archery hunters will tell you that all of the tactics listed above work and, more often than not, it is the correct use of all them that leads to a successful harvest.

First things first — find elk! All of the map making, planning and practice are of little use if the elk that were in your “secret spot” a month ago are now one drainage away. Hopefully, you are able to set up camp early enough before the season opens that you have time to do some last-minute scouting. Of course, you don’t want to go stomping around the woods that you’re going to be hunting, but you can learn a lot by simply looking and listening.

“Glassing” your hunting area from a high vantage point can gain you invaluable information about elk movement in your hunting area. Elk tend to move up and down the mountains they inhabit early in the morning and also late in the afternoon or early evening. This habit can make it fairly easy to pinpoint travel routes. These routes or trails can be a great place to ambush elk as they move between feeding and bedding areas.

As you sit looking over your area, listen very carefully; elk are the most vocal members of the deer family and, contrary to popular belief, elk communicate back and forth to each other all the time. Bull elk don’t have to be in the full swing of the rut to bugle, and the chirps, bleats and mews of cow and calf elk can be heard year-round in the Colorado high country. Elk regularly announce their presence, and the hunter who is paying attention can profit from this apparent lack of restraint.

Now that you have current information on movement and location (even if very general), you will want to put together a plan for the morning hunt. Your plan should put you on course to intercept moving elk. Again, elk will move between feeding areas and bedding grounds. Choosing a spot that, from your scouting, shows the most promise of a well-beaten trail, saddle or a wallow would be ideal. Do what it takes to be not only downwind of the elk, but appropriately up or downhill from them, as well. The cool morning air in the valleys and draws of the Colorado mountains tends to move uphill as it warms. As temperatures drop in the afternoon, the cool air that is at the ridge-tops begins to move back down

the mountains.

Get into position early — the quickly fading darkness of early morning will afford freedom of movement without detection that daylight hours will not. The key is not spooking the elk out of your area before you get a chance to hunt them. Use every trip in and out of the woods before and during your hunt as a scouting trip. Be mindful of elk sign.

A good sign that elk are using an area is “rubbed” trees. Look for smaller aspen trees or pine saplings that bull elk use to rub against to rid their antlers of drying velvet and to otherwise vent their general frustrations. These trees tend to be stripped of bark two to six feet from the ground. A bull with a really bad attitude will wipe the tree clean of all branches and bark. Check rubs for freshness; newly rubbed trees will still have a softness to their bark and will still be oozing sap.

Look for wallows. Elk use wallows for several reasons: cooling themselves down in the hot, early days of fall, to control pesky insects and to spread scent, effectively marking their territory. These small bodies of water can be as large as a backyard pool or as small as a kitchen sink. Evidence of fresh tracks in the mud around a wallow is evidence of recent use. But chocolate milk-colored water and fresh hair prints (made as the elk rolls in the mud) near the edge of the wallow is sure proof that elk are near.

As the morning passes, listen for the telltale sounds of elk movement: a twig breaking, rolling rocks, cow calls or possibly a bugle. Once elk are located, it may be necessary to move to the elk or you can try to call them to you. Try a soft cow call, then, if you get a reply, wait a minute and call again. Be patient. It may take some time for the animals to move to you. If your call is not answered, try again just a bit louder. You may even want to try a bugle. Remember, start soft then work louder — don’t blow their heads off with your first call!

Calling elk is, for most, a trial and error process; listen to the elk and try to sound like them. Listen for a response. It may take just seconds for a “hot” bull to answer, but it can also take several minutes. A bull that doesn’t feel that the caller is close enough to be threatening may simply ignore calls. If these attempts fail to produce a response, consider the wind direction and start to move slowly on a course that will put you ahead of the elk. At all times, be mindful of animals that may be present but remain quiet.

Few things in life prepare a hunter for his or her first up-close experience with one of nature’s greatest residents. It’s hard to imagine that an animal that can hear a pin drop on a feather pillow, see a gnat blink and smell an unscented candle from across a football field can be successfully hunted. Perhaps that’s why after all the hard work, planning and practice,

Archery

even the most seasoned hunters often turn to putty when it all comes together. The chest-pounding increase in heart rate and the seemingly instant lack of oxygen that a close encounter causes can make it nearly impossible to hold steady on your quarry. Take a moment to settle yourself. The unbelievable thrill of the moment can quickly sour with an ill-placed shot. Shoot like you have practiced; pick a spot, draw smoothly, anchor, peep, pin, trigger, breathe and squeeze.

After you release your arrow, you will have one of two feelings — a great sense of accomplishment as the arrow hits the target as you have planned, or great concern that you might not have hit the spot. Mark the spot where you stood at the time the arrow was released, where the elk stood and the direction the elk ran. Most of the time, what you do after the shot will improve your odds of retrieving your downed elk.

Take some time to savor the moment. Most likely, the release of your arrow is the culmination of a year's worth of hard work. Enjoy it! Allow 30 to 45 minutes before beginning your recovery efforts. Generally, big game will travel downhill and rarely in

a straight line. Pay attention to every detail and place markers often. If you lose track, circle your last best sign. Tracking after the shot can be the hardest part of your hunt, so be patient and listen — a wounded elk will hold up in the thickest cover you can imagine.

For an archer, every harvest is a trophy and the memory is better shared with a good field photo. Spend a few minutes preparing the animal for the trophy photo; clean up excess blood. If the tongue is hanging out, take pictures from the other side or tuck it in. Look at hunting magazines for good examples of clean trophy photos.

Archery hunting has a relatively low success rate. As with any method of hunting, more times than not you will head back home without an elk. The experience and the fair chase will keep you coming back!

If you do harvest an elk, be aware of the temperature. During the archery season, most daytime highs are well above 60 degrees. You should quarter the elk and pack the meat in coolers for the trip home. You've worked hard to get to this point; proper care of your prize is critical.

And ... congratulations!

Information resources available to hunters

By Colorado Parks and Wildlife

Hunters looking for information to help with their big game adventure will find plenty of helpful material online at the Colorado Parks and Wildlife website, cpw.state.co.us.

The information includes how to apply for a license, where to hunt, tips for hunting elk, detailed maps, how to field dress a big game animal and much more.

A popular feature is "Elk Hunting University." Jim Bulger, hunter outreach coordinator, has worked with hunters, huntmasters, biologists and field officers to compile a series of articles that address details on how to hunt elk. Article topics include: scouting, using maps, ballistics, how to select a hunting area, archery hunting, etc. Search for "plan your hunt" on the website.

"We're providing hunters with helpful information that will make their hunts more enjoyable and productive," Bulger said. "These articles are not just aimed at novices; even veteran hunters will benefit from these."

Also available on the website are hunting guides for each of the agency's four

regions: Northeast, Southeast, Northwest and Southwest. Available as PDFs on the website and in printed booklet form, the guides provide statistics, game management unit descriptions and hunting tips.

The website also offers statistical tables that provide complete harvest details for all big game species, including method of take and a season-by-season breakdown.

Hunters can also check if they've drawn a license and look at preference points tables for each Game Management Unit and season.

Detailed maps are provided by the agency's geographic information system, known as the Natural Diversity Information Source. These maps show habitat areas and migration corridors in a detailed topographic format. Go to <http://ndis.nrel.colostate.edu/>.

Also on the website: hunting regulations, the Big Game Brochure, explanations of Ranching for Wildlife, leftover license information, information about all Colorado hunting opportunities, descriptions of various species and much more.

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Taking care of big game meat

By Colorado Parks and Wildlife

Ethical hunters not only make a clean kill, they don't waste what they kill, so that means taking care of the meat.

It's against the law to waste game meat. If you harvest an animal, it is your responsibility to remove and care for the meat.

Start preparing before you go into the field. Get your body in shape and be ready to carry heavy loads over rough terrain. Be sure you know how to field dress an animal. Numerous books and websites are available to provide explanations. If you will be hunting with someone who is inexperienced, teach them the proper techniques.

Colorado Parks and Wildlife has produced two videos that explain big game field dressing techniques. See "How to field dress a big game animal," on the website at <http://cpw.state.co.us/learn/Pages/EHU-CH1-L15.aspx>.

Another video, "Down to the Bone," explains how to bone out the meat of a big game animal in the field. By boning out the meat there is much less weight for a hunter to pack out. De-boned elk or deer meat also tastes much better than one with the bones left in. That's because bones and bone marrow impart a more "gamey" taste, as does the fat. You can order the video by calling (303) 297-1192; or by going to the website at <http://cpw.state.co.us/>.

Get your gear in shape. Collect and test all of the equipment you need for cleaning, hauling and caring for your meat. A short list to consider: high quality knife, sharpening stone, bone saw, tarp, game bags, frame pack, paper towels, rope and rubber gloves.

Get your freezer ready, too. Be sure you have enough room to store the meat.

Make a clean kill

Shot placement can affect meat quality. Try for a quick kill with a shot that will produce minimal meat damage. The best target: the heart/lungs area just behind the front quarter. A shot to that area will drop an animal quickly. Avoid shooting an animal in the gut or hindquarters. Don't try for head shots.

Also, be aware of where the animal might fall. Don't shoot an animal in an area where you will not be able to retrieve it. Make sure you are capable of retrieving all the meat before it spoils, before it attracts predators and before you become exhausted.

If you can't make a clean shot, don't shoot!

The animal is down; now what?

When you bring down a big game animal with bullet or arrow, you have achieved one immediate goal, but you haven't fulfilled all of your responsibilities as a hunter. You still have to field dress, transport and butcher the meat properly.

Animals must be field dressed immediately. That means removing the guts, heart, lungs, liver, esophagus and other internal organs. If you choose to bone out the meat, you do not need to "gut" the animal.

After removing all the entrails, roll the animal over to drain the body cavity, then use a clean rag to wipe off excess blood, bone chips, dirt, partially digested food particles and other foreign matter.

Only leave the hide on long enough to keep the meat clean while dragging it on the ground or transporting it over dusty roads in the back of an open pickup.

Next, cool the meat as quickly as possible. Skin the animal as soon as you reach camp. Time is critical, even in cool weather. Without air circulating around the carcass, the meat can sour quickly. Bacterial growth begins at any temperature over 38 degrees Fahrenheit. Maggots can hatch within eight hours if the carcass is exposed to flies and other winged insects.

Remove the head, trim as much fat as possible, place in game bags and hang them in the shade. Keep the meat dry. Do not allow meat to hang more than two days in the woods. If the weather is warm get the carcass into cold storage as soon as possible.

Remember — aging does not improve the flavor or serve to tenderize game meat. Beef can be aged to become more tender and flavorful because the fat on a domestic cow protects the meat from rotting at 38 degrees. Deer and elk are 90-95 percent lean, and the leaner the meat the faster it deteriorates.

When taking the animal home, keep it cold and out of sight. Do not strap an animal to the top of your car.

Game meat can last for several years in a good freezer if it is well wrapped. The best wrapping is a vacuum seal. If you don't have one, use freezer paper. It's better than plastic in staving off freezer burn.

For a more in-depth explanation of field dressing animals and caring for meat, go to <http://cpw.state.co.us/> and type "handling game meat" in the search window.

How not to get lost in the woods

By Chris Parmeter

District Wildlife Manager, Colorado Parks and Wildlife

In the 1980 classic movie, "The Mountain Men," the character Henry Frapp is questioned by a young greenhorn: "Haven't you ever been lost?" Frapp scratches his whiskers and, after a recollecting pause, replies, "A fearsome confused for a month or two ... but I ain't ever been lost!"

For the fur trappers, wandering through a vast and unexplored country, "lost" would have been something of an oxymoron. Not knowing where you were was a necessary part of the mountain man business. The blank space on the map was as much "home" as it was wilderness, and "lost" was more a state of mind than a physical dilemma.

When the mountain men plunged headlong into the unknown, they knew that, where they were going, there would be no restaurants or hotels. So they planned accordingly. They learned quickly where to find food and how to get it; how to mend equipment, to make new or make do; they could sleep in a log, a cave, or just plain under the stars — and survive! How did they accomplish this incredible feat? Simply, they were prepared — mentally and physically.

Today, the same principles apply. When you head out into the woods, be prepared: for cold, rain or snow; to tend an injury; or to stay the night in the woods. It's not as difficult as it sounds. Here are a few nuggets of mountain man wisdom to help you survive:

Staying found

The old timers relied on "Dead Reckoning" for navigation: utilizing a compass to guide them in the general direction they wished to go. Sometimes in the absence of a compass, they relied only on "reckoning." As in "I reckon camp is back that way." The contemporary woodsman may have the handiness of a GPS, but owning one of these high-tech gizmos is not an adequate substitute for map and compass

skills. Just as with other conveniences (cell phones, cameras, flashlights), the batteries will invariably go dead just when you need them the most.

Learning how to read a map is not that difficult; up is north, left is west, and so on. The closer the lines are together, the steeper the country. Water is shown as blue, while man-made objects are black. It is simply a two-dimensional rendition of a three-dimensional world. Using a map and a compass to show you which way is north, you'd be hard pressed to get seriously lost. Sure, some practice is required, but that's all part of the preparedness thing.

Paying attention to where you're going can also be a big help to staying found. As you pursue your quarry, notice which way the shadows are falling. Have you been mostly climbing, or descending? Look for landmarks as you go. Not stumps and rocks, but big landmarks that give your relative position to the valley below, or that craggy peak to the west. Turn around and look behind you; what would it look like if you were going that way — back to camp or the truck?

The essentials

Unless your trip is taking you across the Gobi or the Brooks Range, you probably don't need to carry 50 feet of copper wire or spare fishing line and hooks. The largest wilderness area in Colorado can be traversed in a day or two by a man in decent shape. So, what are the essentials you need when you're on your own hook?

Water. Without it, you're dead in three days. Without it for a few hours, at 9,000 feet above sea level, you're not dead, but you may wish you were. Dehydration can lead to altitude sickness and hypothermia. But even worse, it can impair your judgment, induce panic and result in a fatal case of Lost.

Fire good ... Fire friend ... Fire number two in importance. Learn how to build one, without toilet paper and gasoline. It's as easy as one two three: One, you need dry tinder. Scratch

around under grass tussocks for the driest stuff. Get lots of it, about a volleyball-sized bunch. Two, kindling. You want about twice as much as the tinder you gathered. Kindling is small stuff — matchstick sized. Three is the fuel itself. Gather up plenty if it looks like you may have to spend the night. Pick dry branches one to two inches in diameter — these burn without difficulty and make it easy to control the heat. Of course, we can't overlook the match. You don't need to be proficient with a flint and steel, but you should have at least a couple of ways to start fire; it doesn't matter if it's a lighter or a fire plow, as long as you can get it lit.

Shelter. Now don't jump right into bivy sacks and back-packing tents. Let's take a step back and start at the beginning. Shelter starts with your clothing. Dress for the worst. And in a Colorado autumn, the worst can be pretty harsh. Pick synthetics — like fleece or polyester blends — but wool is best. Dress in layers: long handle union suit, light mid layer(s), and warmer outer layer. Dressing appropriately when you leave camp will find you well on your way to surviving a night in the outback even without a buffalo robe.

Make a plan and let someone know what it is. Leave a map open on the dashboard of the truck. You don't have to give up your secret spot with an "I am here" arrow, just circle a square mile or two. When you leave camp, a plain old "I'm gonna work this ridge out and come back down the crick" is enough to give your buddies a place to start looking for you if you should become "a fearsome confused." The important thing is to stick to your plan.

As you head into the high country this fall, see yourself as one of the Lewis and Clark Expedition; be prepared, both mentally and physically, for the challenges of the unknown. Keep your powder dry and your eyes on the horizon and you'll know that "lost" is, by and large, just a state of mind.

Chris Parmeter is a Colorado Park and Wildlife Manager in the Gunnison/Crested Butte area.

Common hunting violations can be costly

By Colorado Parks and Wildlife

Every hunting season, officers for Colorado Parks and Wildlife hand out thousands of tickets for violations that cost hunters hundreds of thousands of dollars.

While some of those tickets are for flagrant violations of wildlife regulations and hunting laws, many more are for minor violations that could have been avoided.

Hunters are reminded that not only can they be fined for violations, they can also lose their hunting privileges in Colorado and the 42 other states that cooperatively participate in a wildlife compact agreement.

Rick Basagoitia, area wildlife manager for the San Luis Valley, explained that hunters need to set aside some time to review the Colorado Big Game Brochure. The brochure explains many of the common violations and how to avoid them.

"Hunters must know their responsibilities when they get into the field," Basagoitia said. "Wildlife laws are written to protect a valuable resource and for safety."

Following are some of the more common violations that occur every year:

- Not wearing fluorescent orange: You

must wear at least 500 inches of daylight fluorescent orange, plus a head covering of the same color. Camouflage orange or mesh orange do not qualify.

- Carrying loaded firearms in or on vehicles: Rifles must not have ammunition in the chamber while in or on any motor vehicles. For those riding ATVs, weapons (rifles and bows) must also be in a closed case and fully unloaded (chamber and magazine). Most accidents involving firearms occur in or near vehicles.

- Shooting from a road: Before firing a shot, you must be at least 50 feet off of a designated state or county road, and just off forest service or BLM roads.

- License not voided: After you kill an animal, you must void the license immediately.

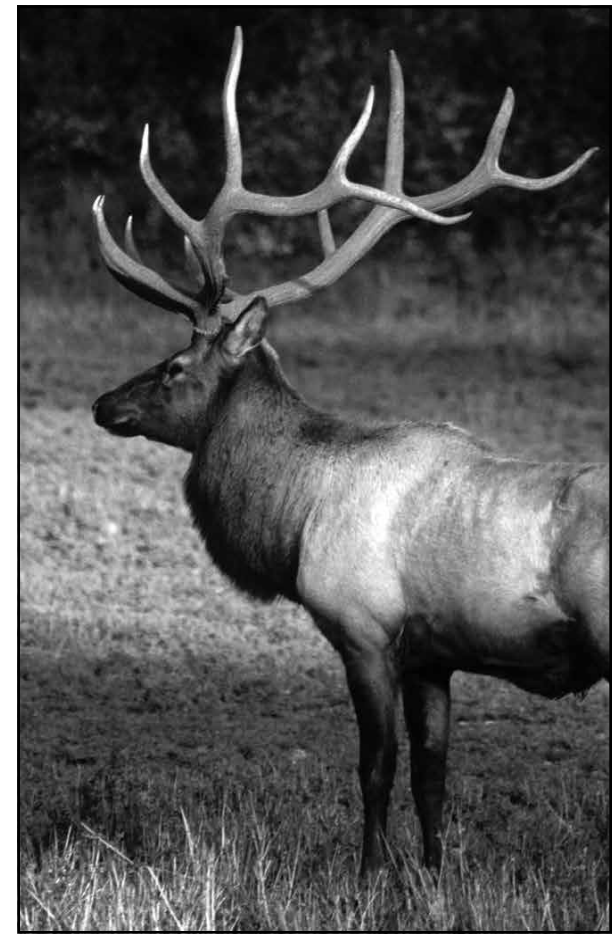
- Improperly attached carcass tag: The carcass tag must be attached to the animal. The best way is to cut a hole in the hide and attach with a tie. It is okay to wait until you get back to camp or to your vehicle to attach the carcass tag.

- No evidence of sex: Be sure to leave evidence of sex naturally attached to the carcass. Evidence includes the head, the ovum or the scrotum.

- Waste of game meat: Big game meat can begin to spoil at 38 degrees. To keep the carcass cool, remove the hide as soon as possible after the kill to allow for air to circulate around the meat. Reduce the mass of the carcass by quartering the meat or boning out the meat. Place the meat in a cooler as soon as possible. Even in cold weather, a carcass should not hang outside for more than 36 hours. Remember: Because game meat contains very little fat, it cannot be aged like beef. The so-called "gamey taste" is caused by spoilage, not because the animal is wild. To learn how to field dress a big game animal, see the video on the website, cpw.state.co.us.

- Shooting a spike-antlered elk: Hunters who hold a cow elk tag sometimes shoot spike bulls. Be sure of your target. If you are shooting at a long distance or in low light conditions, it can be difficult to see spike antlers. If you are not absolutely sure, do not shoot.

- Illegally tagging an animal: You can only place a tag on an animal that you shot. You cannot trade tags with other license holders, or use tags of other license holders.



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Setting up an elk camp: Where do I camp? What do we bring?

By Mark Strachan, Colorado Parks and Wildlife

One of the things I look forward to every year is elk camp. It's the time I get to spend with my friends in Colorado's vast and beautiful outdoors. It's also the time I use to reflect on the important things in life while pursuing one of the greatest animals on our continent, the Rocky Mountain elk. We all spend many hours every year in planning, preparation and scouting to make the most of this time in the field. Over the years, we discovered what made our time in the field even more enjoyable. Camp.

In this article, I will cover some aspects of camping in Colorado that will make your hunt more enjoyable, too. I'll address topics like where do I camp? What do we bring? How to make delicious, quick and easy meals! I believe in keeping things simple, and simple is always better when it comes to maximizing your time in the great outdoors.

The first topic to cover is the old question, where do I camp in Colorado? Our first choice is always public land. Colorado has an incredible amount of public land throughout the state. We always look for places that allow us to walk out of camp and into the field to hunt. This is not always possible, but has a lot of benefits. Make sure to mark down as many different camp options as you can. If you have the time, visiting the area and marking campsites on your map is a great idea. Look for spots that have good access and level areas for tents. Keep in mind that if you are camping in a forest, beetle-killed trees' roots weaken quickly, increasing the risk that they will fall during wind and snowstorms.

During elk season, there will also be some competition for the best campsites. Many of us will get there a day or two ahead of time to secure our favorite spot. It's also important to research the type of public land you are camping on. Forests, BLM and State Trust Lands have varying rules and regulations in regards to hunting, camping, wood collection and fires. Once you have identified the type of land you are camping on, you will need to visit that particular agency's website to find out which rules or regulations pertain to your area.

Another option is to identify local improved campgrounds. State or private parties may run these. Finding a camp in your area is typically very easy. I recommend the Colorado Atlas Gazetteer. This map book is fantastic for identifying public land, terrain and features like campgrounds. These campgrounds have their good and bad aspects. On the plus side, most of them can be reserved, so there is no wondering if you have a spot to camp. The down side is that they are often crowded, and may not be near your hunting area. This means driving to and from your hunting area on a daily basis.

Now that you have established where you are going to camp, it's time to think about what you are going to need. The list can be simple, or extensive. The amount of gear you take is often limited by your method of travel. Camping in the Colorado high country during the fall and winter means being prepared for anything. During the hunting seasons, you will see everything from 70 degrees and sunshine to below-zero temperatures with blowing snow. In Colorado, these kinds of variations in weather can even happen in the same day. You will need to be prepared. With this in mind, the first things to think about are shelter and heat.

There are many types of tents on the market, but the most common type in elk camp is the canvas wall tent. Canvas wall tents are durable, sturdy and much warmer than nylon tents. This is not to say that nylon tents will not work, but you will be more comfortable and have more room for your gear in a canvas wall tent. At our camp, we choose to run multiple tents. We use one tent for cooking, eating and storing of gear and another tent for our sleeping quarters. In the sleeping tents, we use catalytic style heaters attached to 20-pound propane tanks. These efficient little heaters are fantastic for keeping the chill off inside the tents. Two benefits to catalytic heaters are that they take up less space than a wood-burning stove and they do not produce carbon monoxide like other styles of propane heaters. One of the best things about this form of heat is not getting out of bed to stoke a fire in the middle of the night! For planning purposes, you will burn about 2 to 4 pounds of propane per night with catalytic heaters.

In the cook tent, we use a wood-burning stove for heat and for drying out clothes, if necessary. Here is a tip: We use the wax fire logs that come in a paper wrapper. Combine that with a wood log or two, and it will give you four-plus hours of easy starting heat. Be sure to use name-brand logs. The off-brand logs put off a tremendous amount of soot that will clog up your spark arrester. For planning purposes, we bring two of these instant fire logs per day in the field. Even though we typically only use one per day, the other logs are what we bring for the "what if" factor of camping in the high country.

The "what if" factor of camping in Colorado high country are the scenarios you have to keep in mind that you cannot control. The weather in the mountains can be highly unpredictable. Some years we hunt in T-shirts, and others we throw on every piece of arctic gear we own. This may mean packing more, but the year that the "what if" happens, you will be happy to have the gear you need not only to survive, but to continue with your hunt. I have seen many camps get broken down and their

hunting ended early because of not being prepared. Things to keep in mind in the "what if" file are things such as axes, chain saws, extra fuel, extra wood, extra clothes, extra food, rope and tarps. We do take a few non-essential items to our camp; we enjoy the additional comforts. It will be your decision as to what to bring and what not to bring.

When it comes to crawling into a nice warm place to sleep, there is nothing nicer than a good-quality sleeping bag and a cot to lie on. While there are those who wish to rough it, this is one of the things I will not leave at home. You work hard hunting during the day, so why not be comfortable at night? My personal choice of sleeping bags is a negative 20-degree bag that is flannel lined. These bags will keep you warm on the coldest nights. You can find these at most major sporting good stores for around a hundred dollars. I also choose to bring several packing blankets to go between the bag and the cot. This gives you a bit more padding and added protection from the cold. One thing not to overlook is a small tarp to cover over the top of your bedroll. Oftentimes, you will get condensation in large tents that can lead to wet spots on your bag.

For the last part of this article, I want to share with you a way to prepare food for your next camping trip. Many years ago, I joined a camp with some friends of mine, and their idea of dinner at camp was dehydrated food that you poured hot water into. While some of this stuff is OK, there are much better ways to enjoy a tasty, hot meal without the hassle of actually cooking in camp. In our camp, we use a boil-a-bag method. The weeks prior to hunting, I will cook meals at home. Foods such as pasta, potatoes, meats and even rice will reheat very nicely. Our camp favorites are rigatoni with Italian sausage and marinara, or what I call hunters hash. Hunters hash is a combination of diced potato, bell pepper, onion and ground beef. You can take these types of dishes and put several portions per hunter in a vacuum-sealed bag and freeze them for camp. The best way we have found to reheat these bags is with a turkey fryer. These are inexpensive and will boil water fast. Once you have the water boiling, you add your sealed bag of food and in 20 to 30 minutes, you have a piping-hot bag of great camp food and no pots or pans to clean! We burn our paper plates and throw away the empty food bag. Great food, less trash and virtually no clean up. Doesn't get any easier than that!

Hopefully, these tips, links and equipment lists will help you enjoy more of your overall elk hunting experience in Colorado. I know my first experiences would have been greatly improved if I had them starting out, and it is my hope that this article will do that for you. Good luck, hunt safely and have a great camp.

Know the rules and your own limits

By Colorado Parks and Wildlife

Hunting is challenging. Not only must you understand the habits of the animal you are hunting, you must also understand regulations, laws governing public and private lands and your own limitations.

Following are some reminders and things to consider before you start your hunt.

- To obtain a license, all hunters born after 1948 must present a Hunter Education Card from Colorado or another state.
- You must know the specific rules that apply to the Game Management Unit in which you are hunting.
- Be sure to know where you are hunting. You can only hunt in the Game Management Unit that your license specifies.
- As you are hunting, be aware of buildings, homes, roads and your overall surroundings.
- Make sure you know what is behind an animal before you shoot. A bullet shot from a high-powered rifle can easily carry for more than 1,000 yards.
- Make sure that someone at home knows where you are

hunting, your vehicle's license plate number and where you are staying.

- Weather in the fall can change rapidly in Colorado. A day that starts sunny and warm could end with a snowstorm. Be sure you are prepared for all weather conditions.
- Make sure you can recognize the symptoms of hypothermia in your hunting partners.
- Know how to get back to your camp.
- Cell phone service is not reliable in the mountains. Don't expect to contact someone by phone if you are lost or if your vehicle is stuck.
- Make sure to drink plenty of water. Colorado's dry air and high altitude can quickly dehydrate you and deplete your energy stores.
- Be sure to consult the Colorado Parks and Wildlife publications to understand antler requirements for taking bull elk.
- Do not attempt to shoot at animals that are in areas where you cannot retrieve the meat. Know your physical limits.
- If you are using horses: Each must have a certificate of

health inspection within 30 days of entering Colorado; each must present evidence of a Coggins blood test within a year of coming to Colorado; to combat the spread of noxious weeds on federal lands and CPW properties, hay, straw and mulch must be clearly marked as weed-free.

- If you harvest an animal, make sure the carcass is properly tagged. Tags must remain with all processed meat.
- If you transfer an animal killed by another hunter, ensure that it is properly tagged. You could be cited for illegal transport of a game animal even if someone else made the error.
- Do not strap a harvested animal on the outside of your car.
- Operate ATVs and OHVs responsibly. The vehicles must be registered in Colorado — even if it is registered in another state. Off-road vehicles can cause resource damage. Be sure to know the local travel management rules for public lands. OHVs also disturb animals and other hunters.
- If you see hunters violating laws, please report the actions to a wildlife officer or other law enforcement agency. Actions by a few hunters can reflect badly on all hunters.

Other big game hunting in Colorado's high country

By Colorado Parks and Wildlife

Deer and elk are the most commonly hunted species in Colorado. But hunters also go to the high country to pursue other magnificent big game animals: bighorn sheep, mountain goats, bears, mountain lions and moose.

The numbers of these animals in the state are significantly lower than deer and elk, so licenses are few and difficult to get. But those who obtain a license can look forward to a high-quality hunting experience.

Bighorn sheep

The bighorn is perhaps the most recognized and sought after animal in Colorado. The curled horns of the rams display one of the most magnificent characteristics of any wildlife species.

But while the hardy animals live in harsh terrain, bighorns are a fragile species and Colorado wildlife managers are keeping a close watch on them. The population of bighorns is estimated at only about 6,900 and the population has dropped slightly in the past few years.

For the 2013 season, Colorado Parks and Wildlife issued only 277 licenses for the entire state. Last season 218 hunters took a total of 114 animals, including 90 rams and 24 ewes for an overall 52 percent success rate. Getting a license is difficult, with most hunters waiting a minimum of five to seven years to draw a tag. Depending on the unit, many hunters have waited more than 10 years for a license.

The preferred habitat of bighorns is steep, rocky slopes with little vegetation.

"They are very challenging to hunt," says Scott Wait, a senior biologist for the agency.

While not meaning to be discouraging, Wait doesn't mince words about the realities of hunting for sheep. Preseason scouting is essential.

"They are very wary. The stalk is usually long, strenuous and in difficult terrain," Wait says. "Most hunters must make long shots, often 200 yards or more. So you'll need high-quality optics, and rifles must be properly sighted in."

Retrieving an animal, of course, adds to the hunting challenge.

The good news for hunters is that bighorns are most active during the day and follow predictable daily patterns.

Unfortunately, for the bighorn, their predictability contributes to their fragility. Unlike other big game species, they do not adapt easily to new areas. They like to stay on their home turf, even when they are pressured by development or other animals — wild and domestic. When pressured, the animals become stressed and do not reproduce

well. Sheep also are susceptible to diseases.

All the herds in the state are now being closely monitored.

Colorado is also home to desert bighorn sheep. Statewide, the population of this species is growing, although there are only an estimated 520 animals in the state, all on the western edge of Colorado. Only 12 ram licenses were issued in 2011 and all the hunters were successful.

Mountain goats

The adaptable, hardy mountain goats seem to be able to defy gravity. These snow-white critters inhabit terrain that is even more severe than the haunts of bighorn sheep.

Goats balance on narrow bands of rock on sheer cliffs and eat lichen and small plants. They seem to think nothing of jumping from one precipice to another. Goats also remain at high elevation year around, enduring brutal winter conditions above timberline, at more than 11,000 feet.

Mountain goats were transplanted in Colorado from other states in the 1940s. There is still debate if they were ever native to the state.

Goats are very adaptable and can move long distances to get to new terrain. Unfortunately, they also carry a disease that might infect bighorn sheep. Consequently, wildlife managers work to keep the goats in areas where they've long been established and where they don't interact with bighorns. These areas include the Raggeds Wilderness near Gunnison, in the mountains around Georgetown, in the Collegiate Peaks west of Buena Vista, in the Gore Range in the central mountains and in the San Juan Mountains near Silverton.

CPW biologists estimate the mountain goat population at about 1,600. In 2013, 215 licenses were issued and 149 goats were harvested, a 78 percent success rate.

Those who want to hunt goats should expect to wait five years or more to accumulate enough preference points for a license.

Black bears

After being adversely affected by drought in the early years of the decade, black bears appear to be making a slow comeback in Colorado. Bears are very dependent on specific types of plants for survival. Adequate rain and snow in most parts of the state during the last few years has helped spur growth of good crops of acorns in scrub oak, service berry, choke cherries and a variety of grasses and forbs.

It's estimated that from 16,000 to 18,000 bears live in Colorado. Bears range generally

in size from about 175 pounds for a sow and up to about 300 pounds for a boar. Few bears exceed 350 pounds in Colorado.

Bears live primarily in the range of 6,000 feet to 9,500 feet in elevation in thick oak brush and aspen groves. Population and reproduction vary depending on the availability of their favorite foods — acorns from oak brush, berries, grasses and forbs. Most bears are killed by hunters during September, when the animals are most active searching for food before they go into hibernation.

The difficulty in obtaining a hunting license depends on the season and the specific Game Management Unit. Bear-only rifle licenses, obtained through the draw, usually require preference points, depending on the unit. During the regular big game deer and elk seasons, a limited number of bear licenses are available over-the-counter, but a hunter must have a deer or elk license for the same season.

In 2013, just over 15,000 bear hunters harvested 1,100 bears, a 7 percent success rate. One reason for the low harvest rate is that bears are difficult to hunt because they live primarily in thick brush. Also, after September their eating slows down and they are more difficult to find. By early November, most bears are curled up for their six-month nap.

Most bears are harvested when the weather is warm, so a successful hunter must attend to the carcass quickly. Remove the hide as fast as possible after the kill and trim away the fat. Then get the meat on ice as soon as possible. In warm weather, meat will spoil quickly.

Anyone who harvests a bear also must bring the carcass to a parks and wildlife office within five days of the kill so the sex and size can be determined and entered into a database. A small tooth — the first premolar — is also being removed so that researchers can determine the age of the animal and how

many times the sow has given birth to cubs.

Mountain lions

The most elusive big game animal in Colorado is the mountain lion. Also known as pumas or cougars, they live in areas where there is dense vegetation and often very broken terrain, such as canyons and rocky hillsides. Deer are the primary prey for Colorado's biggest native cat.

The population of lions in the state is estimated to be from 3,000 to 7,000. For the 2010-2011 season, the most recent year for which statistics are available, about 1,800 licenses were issued and 383 lions were taken by hunters.

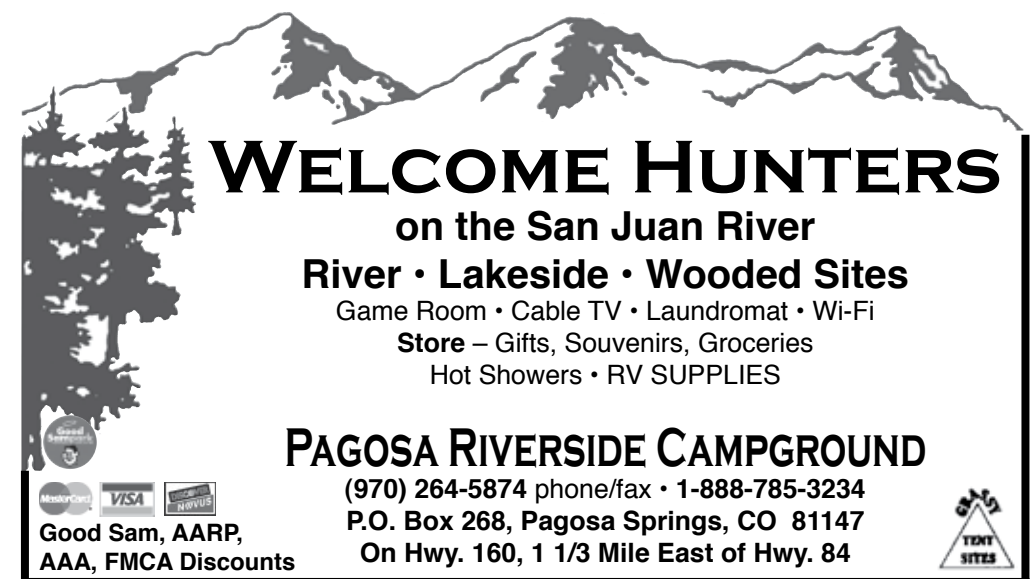
Licenses for lions can be purchased over-the-counter and the season lasts from November through March. Hunters who obtain licenses must call in every day to check if quotas have been filled in specific Game Management Units.

Most lion hunting occurs when there is snow on the ground. Dogs pick up the scent from tracks and chase the lions into trees. The chase is often long and difficult through challenging terrain.

Moose

Moose were introduced to Colorado in the mid 1970s. Moose are solitary and reproduce slowly. It is estimated that about 1,800 moose live in Colorado. They are concentrated primarily in North Park, on the Grand Mesa, in the Taylor Park area, in the upper Rio Grande River drainage and in the La Garita Mountains south of Gunnison.

Moose licenses are difficult to obtain and more than 11,000 hunters annually apply for licenses. Only 240 licenses were issued in 2013. A total of 184 animals were taken during the season for an 83 percent success rate.

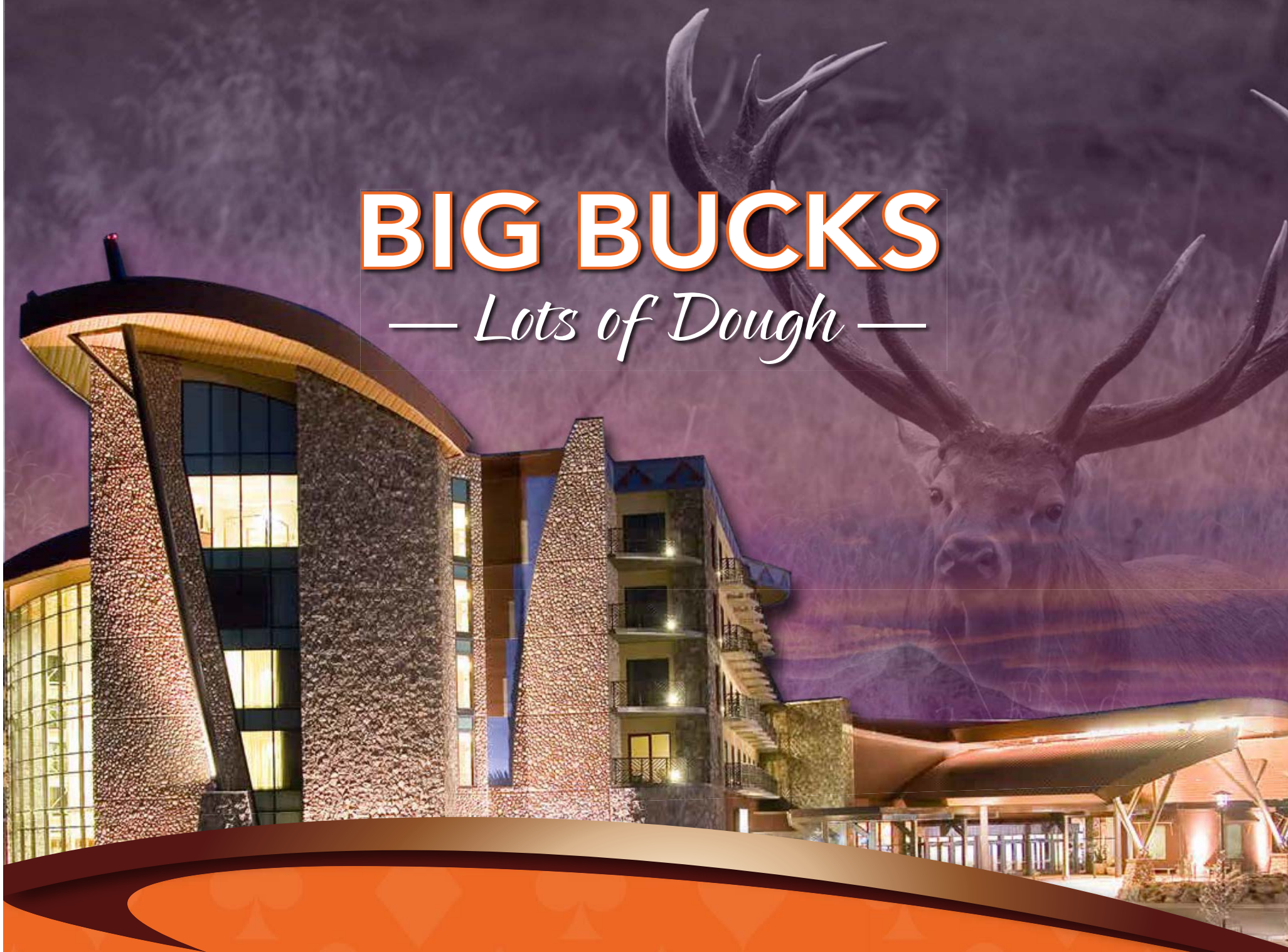


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