COYOTE PREDATION CONTROL
MANUAL and STUDY GUIDE

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Alberta Agriculture and Forestry
Food Safety and Technology Division
Animal Health and Assurance Branch
Inspection and Investigation Section

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Inspection and Investigation Section reserves the right to change this manual without notification.
Introduction

Coyote predation is a concern of all livestock producers. Loses throughout the province are considerable and directly affect the producer’s bottom line.

Various control methods are available for the control of coyotes including poisons, trapping, livestock management, and hunting. This manual will deal in length with the use of poisons.

The public today is very environmentally conscious and demands that any form of toxicant only be used when necessary. Care must be given when using toxicants to ensure that non-target animals and the environment are not adversely affected.

Animal Health and Assurance Branch of Agriculture and Forestry (AF) regulates and is responsible for safe and proper use of these restricted compounds. AF is bound by the Federal Pest Management Regulatory Agency (PMRA) to ensure all federal label requirements are closely followed, and all provincial regulations in the Agricultural Pests Act are adhered to. In order to administer these restricted materials safely, and limit the effects of poison on non-target wildlife, AF requires anyone issuing, using, or handling coyote control devices to be trained and possess a valid “Form 7 Permit”.

Those who hold a “Form 7 Permit” are expected to know and understand the regulations and label requirements of these control devices. Producers receiving these materials are to be advised on how to handle devices properly to ensure no person or non-target animal is placed at undue risk. The objective of this manual is to inform “Form 7 Permit” holders as to when, how, and what control devices to issue for a coyote control problem.
Coyotes:  
Species Profile  

Species name: Coyote *canis latrans*  

1. Historical background  

With the arrival of agriculture, the coyote has increased its habitat area, population, and density in Alberta. Settlers and their activities generally have caused a decrease in large competitive carnivores, and an increase in food supply for the coyote. A winter feed source from dead livestock has been a significant factor in enabling coyotes to increase in both densities and range.  

Early livestock producers (particularly sheep producers) viewed the coyote as a threat to their livelihood. They convinced the Department of Agriculture to consider the coyote a pest and to develop control programs to reduce coyote predation on livestock. Fur trappers desired the valuable pelts of the coyote and utilized this resource abundantly. Others admired the cunning, curious, and wily nature of this wildlife species.  

In the mid 20th century the coyote was declared a pest and poison-baiting programs were initiated to reduce their numbers. They did not have status as a wildlife species. The government, livestock producers, hunters, and trappers all combined forces to attack the coyote, which resulted in a somewhat limited reduction on the general population.  

As agriculture and the general population became more environmentally conscious, the status of the coyote changed from a hunted canine to a valuable wildlife resource and an agricultural nuisance. Populations are now maintained by available food supply and fur harvest management. The most determining factor is the availability of food during the winter season.  

Agriculture has used to livestock husbandry and winter carrion disposal as the first line of defense against predation, with lethal control as a last resort. The use of toxicants has steadily decreased with only a fraction being used today. Coyote control targets the individual offending coyote on specific ranches, and utilizes sound livestock management in conjunction with selective toxicant use.  

The coyote's impact on society has migrated to the urban setting from a strictly rural, agricultural concern. Resolution of concerns in the urban setting is becoming a challenge to wildlife managers. The development of urban sprawl with large areas of wildlife habitat and limited control measures has resulted in an increasing conflict between landowners and coyotes.
2. Biological Information

The coyote has many names: brush wolf, prairie wolf, barking wolf, heul wolf, and American jackal. It is a slender canine weighing between 10 to 22 kilograms, with pointed nose and ears, slender legs with small feet, and a bushy tail. Coloration of the coyote varies considerably between individuals, and range from a light buff-gray to a dark grey with black tones. The under parts are typically whitish and the upper parts have black tipped hairs with strong accents of black towards the tip of the tail. Some individuals have reddish tints to the outside of the legs and face. A coyote stands about 65 centimetres at the shoulder, and is 1.3 metres long including a 25 to 40 centimetre tail.

The romantic howl and yip of the coyote is a familiar sound to most people dwelling in rural areas. The coyote's sharp bark is known as a signal to danger. The song of the coyote is a sound that evokes a vision of picturesque wilderness and beauty to most people; even those who are recipients of its predation. The coyote's ability to adapt and its fertility have made it a well-established species almost everywhere in North America, from deserts to mountains, and coastal forests to plains.

The coyote is one of the most aggressive North American carnivores, and is capable of preying on small animals, the young of most large ungulates, and domestic stock of all kinds. They eat fruit, insects and carrion to balance out their diet and will eat just about anything that is available.

Their cunning and adaptability make their management and control difficult to achieve. They are considered one of the most intelligent of all animals on the North American continent. Learned behavior is extremely keen in the coyote species making control of individual coyotes challenging.

Coyotes are often monogamous for life and breed in February, subject to local conditions (January in warmer locales to March in cooler locales) and give birth 63 days later. Coyotes are sexually mature at one year of age but often do not reproduce until their second year. They readily cross with domestic canines when breeding season arrives, but the resulting coy-dogs are infertile.

Litter size averages about five, with up to 17, pups that are born sightless and brown in colour. The pups stay inside the den for the first two weeks of life, and then start to venture out further each day.

Both parents care for the young. The male is capable of feeding the pups as soon as milk is not a necessity. Rodents make up a large percentage of their diet, but any small animal, dead or alive is fed during pup rearing.

Maternal dens are often the old dens of other animals or coyotes. Coyotes seldom dig new dens. Dens are often concealed using topographical relief, like brush cover, fence lines, rock piles, and other geographical features to hide their location. The den site is kept very clean of
food and feces. The only signs of habitation are packed-down earth and grass, with the occasional stick or bone used to chew on.

The young remain in the maternal den for up to two months then are moved to other holes, brush piles, culverts, rock piles, or other places of refuge for the little coyotes. The adults only frequent dens for the first 2-4 weeks after whelping, and then nursing and feeding takes place outside the den entrance. An extraordinary amount of food is required, due to the large amount of energy used to raise the young during whelping.

It is at this time that predation pressure on domestic stock is greatest. Pups start eating solid food from regurgitated female carrion at about three weeks of age or small mammals are brought back to the den site by the male. Pups learn to catch and eat insects early in life and grasshoppers can constitute a significant part of their diet.

The reproductive potential of the coyote is extremely high and can compensate for 75% yearly reduction in population by producing high litter numbers and a great number of first year breeders. Conversely a low food supply with a high population causes the coyotes to produce low litter size and few pregnant females.

The family group stays together until late fall when dispersal of the juveniles begins. Occasionally, a juvenile will stay with his parents through the breeding season and even into the next spring's whelping.

The home range of the coyote is quite variable depending on terrain and food supply. A three to eight square kilometre area is the norm with a density rate of approximately 0.1 to one coyote per square kilometre. With these varied differences in densities and home ranges every individual area can deal with only a few to many coyotes. Determining these population densities is not easy and challenges wildlife managers, thus making sound decisions in management and control difficult and controversial.

3. Predation and Economic Impact

Since the early pioneer days, the coyote has been killed and targeted by stockmen and hunters throughout Alberta for predation on domestic stock. Yet after decades of destruction from all manner of schemes and devices, from poisons to bounties, the coyote remains abundant and healthy. The coyote has survived all efforts to exterminate it, and is now revered for its resiliency and majesty.

There have been many detailed studies on coyote predation of domestic stock and wildlife. There is no doubt that coyotes are capable, and often attack lambs, kids, calves, sheep, goats, pigs, and poultry. They also take the young of wild ungulates, mostly deer and antelope. Their greatest impact traditionally has been on the sheep industry. Livestock losses were well documented in Alberta from 1971-1980 and the loss ranged from $300,000 to $800,000 per year of actual livestock killed and documented. The industry and government has responded and as a result the losses are much less today.
Agriculture has changed considerably over the last 35 years with confined feeding operations, larger farms, and improved animal husbandry. All of these factors have limited the impact of coyote predation, particularly in the sheep, goat, hog, and poultry industries.

Currently, the cattle industry suffers the most, mainly through economic losses to coyote predation during the calving season. Although debatable, it has been attributed to:
- the coyote turning more to calves because there is less open range of other domestic stock.
- the sheep industry adapting their industry to cope with coyote predation.
- coyote management improving significantly.
Complaints from the agricultural community have decreased over the years along with the amount of pesticides issued.

Coyote damage in the urban community is of a different nature. Rather than economic losses, the coyote is accused of social disruption and the killing of pets. The impact is emotional and protective rather than financial. It is difficult to put a value on pet safety and peace of mind, making the management of the coyote acquiring a whole new dimension. In the past, human safety has not been a proven concern. However, it is real and when wildlife is in close proximity to pets and children, the safety and possibility of attacks on children must be considered. Also, the disruption of joggers, park strollers, and wildlife watchers becomes a concern for coyote managers.

There is also the concern for safety at airports. Due to the potential of disastrous consequences if coyotes are roaming in the vicinity, prevention of any contact with airplanes receives a high priority.

4. Coyote Management

Historically, coyote management was achieved by lowering coyote populations through:
1. trapping,
2. shooting, and
3. poisoning.
Little concern was given to sustaining coyote numbers or managing populations at any natural level. Fortunately, the coyote has been able to withstand any control and there has been little overall impact on its population. However, the species is now recognized as a valuable part of our environment and an integral part of our heritage. The coyote must be managed with the best methods possible.

A) Livestock Husbandry

The first consideration, when conflict exists between livestock and coyotes, is the management of livestock to prevent situations that induce or invite predation. Sound husbandry practices reduce interactions between livestock and coyotes. Land use practices must be analyzed and the best use patterns considered before coyote conflicts arise.
Open grazing on public lands require that the most sophisticated livestock husbandry practices are being implemented. Any open grazing should be analyzed for sound management, economic, and livestock husbandry practices before considering coyote control. The following play an important role in reducing coyote conflicts with livestock:

- herd surveillance
- corralling at night
- carrion disposal
- age classing
- use of guard animals.

Utilizing mature animals, and ensuring the animals are healthy and robust before being placed in a predation environment assists in reducing coyote predation.

**Herd Surveillance**

Herd surveillance can require a herder to be constantly with a large flock of sheep on open range, or merely attending the flock once a day to ensure they are cared for. When lambs are small, multiple visits should be conducted until they become strong enough to defend themselves.

First time calvers should not be left unattended in an open range situation and require much more surveillance than mature cows. The constant presence of a livestock manager contributes considerably to the reduction in coyote conflicts. Brush cover also plays an important role in the probability of coyote attacks. In heavy brush conditions, compensate by increasing livestock husbandry practices to minimize the threat of predation.

**Corralling at Night**

Corralling at night is a necessary practice with sheep in open range situations, and should be considered where a flock is grazing in open pasture habituated by coyotes. Frequent pen checks are a necessary management practice for sheep producers. Identifying problems early can be a great advantage.

When checking sheep, take note of their behavior. Repeated attacks will change their behavior. Are your sheep more nervous, alert, or fearful than usual? Also take note of whether the sheep are more scattered or split into groups, or anything that is uncharacteristic of your flock or breed of sheep. Cattle do not require such practices and are relatively safe from flock or breed of sheep. Cattle do not require such practices and are relatively safe from flock or breed of sheep. Cattle do not require such practices and are relatively safe from flock or breed of sheep. Cattle do not require such practices and are relatively safe from flock or breed of sheep.

**Carrion Disposal**

Livestock carrion removal can play a role in reducing predator dependence on domestic stock. A dependence on livestock for a predator’s food source, particularly in the winter months, can develop if there is an available source of livestock carrion. Also weak or sick animals can entice a predator to develop a dependence on livestock as a food supply. Coyote predation on livestock is a learned behavior and anything that impedes, disturbs, or prevents this process, such as the removal of livestock carrion, will reduce livestock losses.
Even if coyotes are not feeding on the carrion, the mere presence of dead animals can entice coyotes to remain in the area, and thus initiate the predation learning process.

**Age Classing**
Age classing for protection of young animals is another method of livestock husbandry that needs to be considered in reducing the potential for coyote predation. Not putting young lambs on summer open pasture greatly reduces the probability of predation. Feedloting lambs and placing young lambs and calves in close small pastures before placing them out on summer range can reduce the pressure of predation.

**Guard Animals**
One of the best preventative methods of livestock predation for sheep producers is introducing a guard animal. A livestock guardian animal stays with the flock without harming the sheep and aggressively repels predators. Dogs, donkeys, and llamas have all been used successfully to protect livestock. The choice depends on the:

- livestock being protected
  - local terrain
  - acreage
  - predator threats
  - budget, and
  - personal preference.

Whichever animal you choose, it will require training, extra feed, vet care, and housing expenses. Guard animals can be effective, but in some situations, packs of coyotes will defeat the most diligent guard animals. If you are following an aggressive rotational grazing program, with flocks in several paddocks at the same time, you may need a guard animal for each paddock. The major advantages of using guard animals include decreased predation, reduced labour to confine sheep at night and more efficient use of pastures for grazing.

**Guard dogs are the most useful tool for reducing livestock losses to predators.** A trustworthy, well-bonded dog is very effective. It is important to remember that they are a fulltime member of the flock. They are not a herding dog or a pet.

There are many breeds that are suitable, such as Maremma-Abbruzzi, Akbash, Kuvasz, Great Pyrenees, Komondor, Anatolian Sheepard, Shar-plainetz and others. An advantage of using dogs is that multiple dogs do not reduce individual effectiveness. Guard dogs work well in both fenced pasture and range operations. In fact, they are the most effective weapon in large flock, range-type operations, or in heavily treed pastures where more than one guard animal is required.

In rare instances, dogs may harass or injure sheep, or wander off and not remain with the sheep. Guard dogs have higher feed costs than guard donkeys or llamas and require daily feeding. However, guard dogs will alert the owners to any disturbances near the flock. They will also protect the livestock and the farm property. **They are the best guard animal and best management tool to reduce predation from coyotes (especially for sheep producers) and are used extensively in Alberta.** However, if a
guard dog is being used to protect livestock, we do not recommend the use of coyote control toxicants.

**Guard donkeys** have been used for centuries to protect sheep and other herding animals. Donkeys are extremely intelligent, with acute hearing and sight, and they are conservative by nature. They do not like change in their surroundings, and will drive off a coyote or stray dog an intruder. Donkeys also have an instinctive dislike of canines.

Donkeys are easy to care for - good pasture or hay and water is all they need - and are delightful barnyard pets, if you accept that they are clever and rigid. But not all donkeys are instinctive guards. Some will ignore an intruder, and there have been cases of donkeys that run away from intruders, or donkeys that attack the sheep and goats they are assumed to protect. There is wide variation in how individual donkeys interact with sheep. Be aware that the donkey's behaviour and mood may be unpredictable during estrus, or when the ewes are lambing.

Researchers recommend using only one jenny (female) or gelded jack (male) per pasture; intact jacks are too aggressive, and two or more donkeys might stay together instead of being with the sheep. They also recommend approximately allowing for a four to six week period for the donkey to bond with the sheep. The donkey's distinct dislike of canines may also include the farm or herding dog. It is suggested that donkeys are most effective in small, open pastures or where sheep are cohesive and graze together. Feeds containing anabolic agents, such as monensin (Rumensin) and lasalacid (Bovatec) are poisonous to donkeys.

**Guard llamas** are intelligent, instinctively dislike canines, and are capable of protecting a flock from some predator attacks. A tall, alert llama can be intimidating to a coyote. Because they are ruminants, llamas can eat the same diet as a flock of sheep or goats they are guarding. A guard llama should always be gelded. It is generally recommended that llamas not be gelded before one year of age because of problems in the growth of leg bones if the male hormones are not available.

Llamas are naturally aggressive toward coyotes and dogs. Typical responses of llamas towards coyotes and dogs are that of being alert, alarm calling, walking to or running toward the predator, chasing, kicking, or pawing the predator, herding the sheep, or positioning themselves between the sheep and predator. Although the snorting and stomping of a llama can be an effective deterrent against a prowling coyote, llamas can themselves be vulnerable to packs of coyotes, dogs, wolves, and cougars. Many llama breeders now refuse to sell llamas as livestock guards because their guarding manner - out of natural curiosity, a llama walks toward a marauding predator - can increase their vulnerability. Also be aware that the llamas may spit at you.

**B) Fencing**

Success in terms of fencing to keep coyotes out is variable and dependent on many different factors, including the predators past experience, the type and availability of livestock, the predator population, the season of the year and the design and quality of the fence.
Net fences, when in good repair, will deter many coyotes, as will several other combinations of barbwire and electric fences. Remember, however, that the coyote’s motivation and past experience with the fence will affect his response to it. In other words, if he knows there is an easy meal on the other side, expect this canine to dig under, or jump over or through most conventional fences. Some of the most effective fences can be simple in design when combined with other aggressive deterrents, such as guard dogs and donkeys. When the potential for predation warrants the expense and labour involved with fencing, contact the Ag-Info Centre at 310-FARM, or the provincial sheep organization for more information on fencing design.

Electric fencing has proven to be an effective, non-lethal method of preventing predation to sheep producers. It also provides the opportunity to use temporary electric fences to facilitate pasture division for improved grazing management. Electric fences are relatively easy to maintain and are cheaper to build than conventional fences. However, the fences must be designed and built properly, be grounded properly and be powered by a sufficient energizer. They also require routine inspection and maintenance to reach full protection capabilities. Detailed instructions for the construction of these fences can be obtained from Alberta Agriculture fact sheets:

http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/agdex888

Agdex 724-6, Fencing with Electricity.
http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/agdex47

C) Lethal Control of Coyotes

Neck Snares
Neck snares, constructed of braided steel cable, have been used for many years by fur trappers to capture coyote, wolf, and fox. Neck snares are also effective to remove problem coyotes from farms where livestock predation has occurred. Snares are harmless to birds but will capture deer, other wildlife, and farm animals if not set properly. Avoid setting snares on game trails, as this will increase the chances of catching non-target animals.

Neck snares are available for coyote predation control under permit. These snares are individually numbered, marked for accountability, and must be used under standards provided by Animal Health and Assurance Branch.

Snares must be made with quality, proper size steel-braided cable, and a locking device. If inferior material is used to construct a snare, a coyote may break or chew off the snare and escape. Several strands of haywire should be used to securely anchor the snare to prevent escape.

Coyotes that enter a pasture by digging under or crawling through a fence can be taken with a snare encircling the entry hole (Figure 20). The snare should be set on the outside of the fence,
which is the direction from which the coyote will approach. Secure the snare to the wire fence by the haywire on the end of the snare. Watch small snare loops within the hole, as they are more easily detected by coyotes.

Figure 20. Coyotes that enter a pasture by digging under or crawling through a fence can be taken with a snare encircling the entry hole.

On a dig hole under a fence, the loop should be made as large as the outside of the hole. Place the bottom of the snare five centimetres above ground level. As the coyote pushes through the hole under the fence, its feet will pass the snare and its head will pass into the snare loop. The outline of a snare can be concealed by lightly wrapping dry grass around the loop.

As with all control techniques do not leave unnecessary signs or odours at the site. Cigarette butts, footprints, spit, and urine may frighten coyotes or make them wary. Wear clean gloves when snares are handled and set. Do not wear shoes that are fouled with grease, oil, or other material. To minimize suffering, always check set snares daily, preferably each morning to monitor snaring success and to dispatch captured coyotes.

Poisons
Poisons used for coyote control are strictly regulated and registered as restricted pesticides under the Pest Control Products Act of Canada. Precautions and procedures of poison use are contained on a pesticide label provided to users of coyote poison.

People who use poison under the coyote control program of AF must be trained and able to demonstrate responsible use of the poison and agree to use the poison in strict accordance with the regulations of the Province of Alberta Agricultural Pests Act and the Pest Control Products Act of Canada.

Farmers using poisons must:
• Receive a PCP label which outlines the instructions and restrictions for using the poison, a “Form 7 Permit”, and sufficient warning signs from an authorized inspector for posting on
Sodium Cyanide

Sodium cyanide is a colourless solid that reacts with carbon dioxide or acids to form hydrogen cyanide gas, which is extremely toxic. Hydrogen cyanide is produced when an animal ingests sodium cyanide and prevents cells of the body from using oxygen. Unconsciousness occurs quickly, followed by convulsions and death within five minutes.

Sodium cyanide for coyote control is used in an M-44 device. The M-44 is a mechanical device designed to eject sodium cyanide powder into the mouth and throat of a coyote. The M-44 device is positioned in the ground and fitted with a baited cyanide cartridge. When a coyote bites and pulls on the cyanide cartridge, an ejector on the M-44 device propels cyanide powder into the coyote’s mouth and throat. The cyanide powder is converted to cyanide gas in the coyote’s throat and stomach and kills the coyote quickly.

The use of the M-44 device is authorized by the Alberta Agricultural Pests Act. The sodium cyanide used in the M-44 is registered under the federal Pest Control Products Act. M-44 devices must be used in accordance with the PCP label for sodium cyanide.

M-44 Components and How They Work

The parts of an M-44 device (Figure 21) are as follows:

- **Stake (A)** — a pipe-like part with a flattened bottom end. It is driven flush into the ground with a driving pin and holds the ejector mechanism. A spring clip mechanism on the top of the stake fits over the trigger of the ejector mechanism.

- **Ejector Mechanism (B)** — a spring-activated pin in this component forces cyanide powder from the cyanide cartridge when the mechanism is fired. The ejector mechanism is fitted into the stake, with the trigger of the ejector placed under the spring clip of the stake. The top part of the ejector is threaded to attach the loaded cyanide cartridge.

- **Setting Tool** — pliers used to depress the pin of the ejector mechanism. With the pin depressed, the trigger of the ejector mechanism is locked in the firing position.

- **Cyanide Cartridge (C)** — a small plastic cylindrical case that holds the cyanide powder.

- **Cartridge Holder (D)** — a metal part threaded on the bottom and covered with fabric or wax. The cyanide cartridge is inserted into the cartridge holder. The loaded cartridge is...
tightened onto the cocked ejector mechanism.

![Image](image.png)

Figure 21. The parts of an M-44 device.

**M-44 Setting Procedures and Precautions**

1. Avoid accidents! Always wear safety glasses, a heavy-duty dust mask and gloves to protect yourself in case the M-44 device is accidentally discharged.

2. Always wear gloves kept only for coyote control. Gloves reduce the amount of human odour left on an M-44 device, and protect your hands from cyanide contact. Leave as little foreign odour and disturbance as possible at the site where an M-44 device is placed.

3. At a selected site, clear a 30 centimetre diameter spot of any long grass and other debris. Also scratch up the site with your hammer. This tends to attract the coyote along with the food lure used.

4. Remove the ejector mechanism from the stake. Drive the stake into the soil until it is flush with ground level. Use a long driving pin to prevent damage to the top of the stake and spring clip.

5. Depress the pin of the ejector mechanism with the setting pliers, and lock the pin in the set position by lifting the trigger located on the side of the ejector mechanism. The pin is locked down to fire when the ejector trigger is in a horizontal position.

6. Place the locked ejector mechanism into the stake ensuring that the ejector trigger is under the spring clip of the stake.

7. From an upwind position, always use an out-stretched arm to carefully screw the loaded cartridge holder onto the ejector mechanism. A light, downward pressure must be used when a loaded cartridge holder is attached or removed from the ejector mechanism. An upward pull will cause the M-44 device to fire. Always keep your face away from the M-44 when a loaded cartridge holder is attached. Never work directly over a loaded M-44 device.

8. Apply a food lure to the set device. The inspector normally supplies lure prepared by AF, although homemade and commercial lures can also be used effectively. Apply the lure with downward strokes to prevent accidental firing of the device.

9. Always remember the following precautions when you attach or remove a loaded cartridge holder: stay upwind, wear gloves, safety glasses and a heavy-duty dust mask, use an
outstretched arm, exert a downward pressure, and keep your face away from the M-44 device.

10. Check M-44s at least every 72 hours. Remove and replace fired cartridges and re-apply lure as needed. The top of the loaded cartridge holder will be frayed and open if it has been fired; a stick or grass stem can be inserted inside the cartridge holder. However, you should always assume that an M-44 device is dangerous. Carefully unscrew the loaded cartridge holder from the ejector mechanism. Inspect the cartridge to determine if it has been fired.

11. All M-44s must be removed as soon as coyote predation has stopped, and no later than 30 days after placement.

**Placement of M-44 Devices**

Proper placement of an M-44 greatly influences its success. Study the situation carefully before setting one. Try to locate the travel routes and direction from which coyotes are approaching a predation site. An M-44 device must be placed where a coyote will easily find it. One well-placed set is often better than several poorly located ones. A hilltop or knoll makes a good site, as do locations along livestock trails, fence lines, or on the edge of a bush or field. M-44 devices should not be set in low areas prone to flooding or standing water from rains.

Place M-44 devices off to one side of a sheep or game trail to prevent animals from stepping on it. **Do not** set M-44s where livestock other than sheep or goats have access to them. Some livestock including cattle and horses may lick, bite and chew at the applied food lure and cause the device to fire and potential death. Pets, especially dogs, are also at risk, and must not have access to pastures where M-44 devices are placed. **Do not** use an M-44 where herd or guard dogs are present unless the dogs are first removed or confined away from the area.

A kill site is a good location to use sodium cyanide. Remove the livestock carcass and replace it with an M-44 device. A coyote will usually find the device and pull it.

A written record must be kept of the location where the M-44 is set. Make the description as detailed as possible so that anyone can find the device. You may have trouble finding the M-44 without a distinctive landmark. For example, place a rock, a large piece of wood or a tree branch five paces north or south of the set device. Locate the rock or piece of wood and then it should be easy to find the M-44.

**Sodium Monofluoroacetate (Compound 1080)**

In Alberta, Compound 1080 has replaced strychnine for coyote removal because it is a more selective poison. The small amount required to kill a coyote is less likely to harm a person or animals such as bears and wolves. In addition, the chance of secondary poisoning is low for animals that feed on coyotes killed with 1080. The major hazard of 1080 use is to domestic dogs that consume baits set for coyotes. Dogs should be confined when 1080 baits are used; adjacent neighbours must also be notified of poison use.

**What is Compound 1080 and How Does it Work?**

Compound 1080 is a white, practically tasteless, crystalline material with a slight acetate odour, and acid-salty taste. Compound 1080 is only absorbed when swallowed, and not through normal, unbroken skin. Compound 1080 is a slow acting poison. Symptoms of poisoning
appear within 15 to 45 minutes and death usually occurs within 24 hours. Compound 1080 forms highly toxic fluorocitrate in the cells of the body. Fluorocitrate blocks energy production causing the loss of cell function and cell death. Eventually the organs or the organ function fails, with death from cardiac and/or nervous system failure.

Compound 1080 poisoning symptoms include initial effects on the nervous system followed later by effects on the heart. A dog poisoned with Compound 1080 becomes hyperactive, frequently howls, and has running fits and actions suggestive of hallucinations or hysteria. Death from heart failure usually follows continual body contractions combined with running movements while laying stretched out.

There is no practical antidote for compound 1080 poisoning; only the symptoms are treated. Once cardiac effects are observed, death is assured. As with all poisons, Compound 1080 is an extremely toxic chemical and is dangerous to people, wildlife, and domestic animals if used improperly.

**Use of Compound 1080**

Compound 1080 is mainly used for coyote control in a tablet form. Each tablet contains enough 1080 to kill one coyote; that is, it contains a single lethal dose of poison.

Compound 1080 tablets can be used in two ways:

1. A single tablet can be placed in a bite-sized piece of meat weighing less than 100 grams (e.g. chicken head). **This is the preferred method** and will be called an “SLD bait” (single lethal dose bait).

   Each of these individual baits will kill only one coyote. When several SLD baits are set at a predation site, they should be set far enough apart to discourage coyotes, or any other animal, from eating all the baits. If correct bait placement procedures are followed, there is less chance of poisoning other species with SLD baits than with a large carcass bait.

   SLD baits are often placed along coyote trails leading to a predation site. A coyote-killed livestock carcass can be a “draw bait” to attract coyotes to the predation site. As coyotes approach the draw bait, the SLD baits are found and consumed. However, animals scavenging the untreated draw bait are not harmed.

2. Up to a maximum of six tablets can be placed in a coyote-killed livestock carcass. A coyote that returns and feeds on the carcass is also likely to be involved in killing the animal. Poison should only be placed in a carcass when the carcass is fresh. In warm weather, this is generally less than one day after death. Otherwise, the carcass should be used as a draw for SLD baits or the carcass should be removed and disposed of. Placing poison in a carcass will increase the chances of non-coyote poisoning. Also, disposal of unconsumed portions of a poisoned carcass is more difficult than disposing of SLD baits.

**SLD (Single Lethal Dose) Baits**

What makes the best SLD bait? One 1080 tablet placed in a small, bite-sized (less than 100 grams) piece of meat makes an SLD bait (Figure 22). A chicken head make an excellent bait at all times of the year and should be used in preference to other bait materials. The beak should be opened and the tablet placed in the throat. Chicken heads are preferred because they are not readily consumed by ants, carrion beetles, or mice. The skull makes effective bait even after
the head is dried out or stripped of flesh by insects.

Soft meats (hamburger, liver, flesh) do not make good SLD baits during the warm seasons because they quickly rot and are eaten by mice or insects.

Raw eggs can be used during warmer months. Make a small hole in the end of the egg with a knife and insert one tablet. Seal the opening with lard, fat, or tape.

Be sure to place a lure or odour attractant on the egg because an egg does not have much scent. Chicken eggs make good bait because, normally, they cannot be broken by animals smaller than a skunk.

Coyote lure is usually placed on or close to SLD baits. SLD baits must be covered with a layer of either sod, soil, snow or, dry chicken, or cattle manure. Coyote lure can be placed on the cover material or on vegetation within close proximity of the bait.

Lures are usually made from strong-smelling ingredients that attract coyotes to the site. Common components of lure include coyote urine, rotten meat, fish oil, beaver castor, skunk or mink musk, and anise oil. AF provides a lure made primarily from beef brains and salmon oil. Many commercial lures are also available.

One to three SLD baits should be placed at a time, but not close together, at a predation site. Spacing the baits out on different coyote trails in association with a livestock kill site will improve poisoning efforts. Replace consumed baits until predation stops. SLD baits make for more effective coyote control. They reduce non-target animal hazards. They are also easier to pick up and destroy after control has been completed than is a poisoned carcass.

Occasionally, a poison cannot be used directly at a livestock kill site because it may be too close to a road or a residence. However, the livestock carcass may be used as a draw bait by moving it to a location where poison can be used. Place the draw bait carcass near the approach trails used by coyotes and in an open area 50 to 75 metres from a creek or bush cover. Baits placed immediately adjacent to a creek or bush are frequently taken by non-target
species so avoid these areas.

If the carcass of a coyote kill is not available, baits can be set along coyote trails leading to the kill site or area where livestock are being held.

**Set bait to minimize non-target animal consumption and poisoning.**

If a non-target animal consumes bait, the animal may needlessly be killed. Coyotes will readily find and consume a SLD bait that is covered with 5 to 10 centimetres of soil, snow or sod. Covering a SLD bait only with grass or other light vegetation is not recommended as wind may blow it away leaving the bait visible to non-target animals.

Birds almost never pick up bait if it cannot be seen from above. Carrion beetles, ants and other insects consume SLD baits very quickly in warm weather. Carrion beetles are attracted by ammonia given off by rotting flesh. Consumption of SLD bait by insects can be reduced or prevented by applying a layer of dry chicken manure over the bait. Cattle will frequently investigate a dead carcass. They may also be attracted to the odour of coyote lure, particularly if it contains fish oil. SLD bait should not be placed closer than 15 metres to a carcass used as a draw bait if cattle are present to reduce the chances of the SLD bait being trampled. Also, coyote lure should not be used, or applied only sparingly, to the covered SLD bait.

A dig-hole set works very well for applying SLD baits. It mimics the burrow of a rodent (Figure 23). The hole should be about 5 to 10 centimetres in diameter and about 15 to 20 centimetres deep at an angle into the soil. A dig-hole set can be used with or without a draw bait. Place bait in the hole and cover with about five centimetres of soil. Coyote lure may be placed on the bait or at the tip of the hole. Rodent burrows are often investigated by coyotes. Therefore, the hole set offers a visual attractant for coyotes as well as protects the bait if cattle are present. Cattle may still trample the site without destroying the bait. In winter, snow can be mounded and SLD bait buried about 7.5 centimetres into the top of the mound. Coyote lure can be applied to the bait and on top of the mound for extra attraction. Snow mounds make checking and locating baits easier, even after a heavy snowfall. A coyote attracted to the snow mound will dig out and consume the concealed bait. This is usually obvious upon bait inspection and baits can therefore be accounted for.

![Figure 23. A dig-hole set works very well for applying SLD baits. It mimics the burrow of a rodent.](image-url)
**DO NOT** place 1080 in a carcass used as a draw bait when SLD baits are used. Poisoned draw bait will increase the poisoning hazard to scavengers, particularly birds, and is more difficult to dispose of if not totally consumed by coyotes.

**Carcass Bait**
When it is necessary to poison a carcass, the poison should only be placed in areas protected by intact hide or on the underside of the carcass to minimize hazards to birds.

**Toxic Neck Collar**
The toxic neck collar can be used administer toxicants to coyotes that attack sheep or goats. This technique exploits the coyote’s habit of killing these animals with a bite to the throat area. A coyote will actually suffocate a sheep or goat with numerous bites to the throat that eventually collapses the windpipe.

Like all other coyote control techniques, the toxic collar is more useful in some situations than in others. It is the most selective and safe way to use poisons for coyote control. These techniques are useful where other lethal controls are inappropriate or poison bait or cyanide guns are ineffective. The toxic collar can be a valuable tool for coyote control.

![Figure 24. Toxic neck collar – the rubber bladders containing 1080 solution are firmly attached to two velcro straps.](image)

Collars are made in two sizes for big and small-sized sheep or goats. Each toxic collar has two rubber bladders that contain a solution of water and Compound 1080. The bladders are firmly attached to two velcro straps (Figure 24). A collar is fitted on a sheep or goat so that one bladder is on each side of the throat just under the jaw (Figure 25). The velcro straps are fastened on top of the head. One strap fastens behind the ears and the other in front to hold the collar in place. These straps should be stapled together in two different places to further secure the collars on the animal. The straps should not be too tight or they may cause sores beneath the collar.
A coyote that attacks a collared animal will usually bite and puncture the collar and receive a lethal oral dose of poison. The poison is only delivered to those coyotes that attack a sheep or goat. Thus, the toxic collar is harmless to coyotes not involved in livestock predation and to other non-target species.

Figure 25. A collar is fitted on a sheep or goat so one bladder is on each side of the throat just under the jaw. A coyote attacking the throat area punctures a bladder and ingests the poison.

A coyote will receive a lethal dose of poison during approximately 75 per cent of the attacks on a collared animal. With sheep, ideally all lambs should be collared. However, herd management is usually required for a large flock, so all lambs need not be collared. Ewes need not be collared if lambs are present because coyotes prefer to attack lambs. When a flock is large, 20 to 50 lambs and their mothers are separated from the main flock, and the lambs are collared. The target flock is left in the field where the most recent predation occurred while the main flock is moved to a different field and corralled at night.

Points to consider when establishing a target livestock group:

- For sheep, the toxic collar works best on a healthy, thrifty lamb over 14 kilograms. When attacked, a big, healthy lamb struggles more and increases the chance of a collar being punctured by the coyote.
- Collars are most efficiently used after a pattern of normal coyote predation has developed. A predation pattern can only be determined after about three coyote attacks have occurred in two weeks. It can then be determined where the collared lambs should be placed and for how long. However, collars can be used before three attacks have occurred.
- Toxic collars are most effective in the spring and early summer when predation is more regular.
- Collared animals should be checked daily and the collars adjusted as required. A search should be made immediately for missing animals and collars. Attention to detail will increase chances of control success.
- Changes in the size or distribution of a flock may deter coyote predation for a
week or two. Patience is required. Collars should be removed if predation has not occurred within 30 days.

- Accurate records of toxic collar use must be maintained.

Use of toxic collars is more involved and has more disadvantages than other lethal control measures. Therefore, they are generally used only where other lethal control measures have failed or are inappropriate for the situation. Disadvantages of the toxic collar include:

- Collared animals that are attacked are usually killed by the coyote because 1080 does not kill immediately. The first symptoms of 1080 poisoning do not usually occur until several hours after the poison is ingested.
- Increased labour is required to capture, collar, monitor and manage the target flock to direct a coyote to a collared animal.
- The main flock must be separated from the target flock and moved to another pasture and/or be confined at night.
- A pattern of predation should be determined before collars are used. They work best where coyotes kill regularly (every one to three days). If a coyote only kills occasionally, the labour and time required to resolve a predation problem can greatly increase.
- Collars are ineffective if coyotes do not attack the throat.
- Guardian dogs should be removed from collared sheep to prevent potential poisoning. Guardian dogs closely bonded to sheep often groom them by licking their face and ears. A leaking collar could provide a lethal dose of poison to the dog during grooming.

The effects of toxic collars on non-target animals and the environment have been evaluated in the United States and found to be minimal or negligible. Only a predator that attacks a collared animal and punctures a collar is at risk of death. Death of an animal feeding on a coyote killed by a toxic collar has not been demonstrated. There is a potential for non-target poisoning of scavengers if they eat the neck of a dead collared animal on which 1080 solution from the collar has collected. However, most feeding takes place on the body of a dead animal rather than on the neck. There is also a potential hazard to guardian and other farm dogs who may groom collared sheep or lick at collar solution on the throat or the damaged collar of a dead collared sheep. Prompt disposal of a dead collared animal and punctured collar minimizes non-target hazards.

A collar can occasionally be lost, especially during a predator attack. A missing collar may pose a potential threat to people. However, it is unlikely that anyone would knowingly ingest the liquid from a collar. Regardless, every effort must be made to find lost collars.

**BOOKLETS:**
Agdex 684-14, Methods of Investigating Predation of Domestic Livestock “Red Book”
Cost: $8.00. Order On-Line at: [www.rtw.ca/b680](http://www.rtw.ca/b680)

Agdex 684-19, Coyote Predation of Livestock. Cost: $8:00.
Order On-Line at [www.rtw.cab681](http://www.rtw.cab681)
Alberta Agriculture and Forestry (AF)

COYOTE PREDATION MANAGEMENT PROGRAM (CPMP)

OPERATIONS POLICY AND PROCEDURE

Introduction

The purpose of the Coyote Predation Management Program (CPMP) is to inform and assist landholders in managing coyote predation of their livestock. Alberta Agriculture and Forestry (AF) administers the CPMP throughout the agricultural regions of the province.

AF and participating rural municipalities (Agricultural Service Boards) administer the CPMP through a joint co-operative arrangement; AF supervises the program provincially and municipalities deliver the program within their jurisdiction in accordance with this document and municipal policy.

Included in the written municipal policy on coyote predation management will be the list of coyote control materials and devices approved by council (or Agricultural Service Boards [ASB]) for use within their jurisdiction for the purposes of the program.

Municipal personnel are trained and authorized by AF as inspectors under the Alberta Agricultural Pests Act (APA) to carry out the CPMP.

Authorized municipal inspectors respond to landholder complaints of coyote predation and provide advice and, where needed, direct assistance to landholders in managing coyote predation on their property.

General Background

Conflict between coyotes and farmers began with the arrival of European settlers and livestock domestication in the Canadian west. Despite early attempts of elimination, the coyote has expanded its range and increased its numbers significantly throughout the province.

The coyote is an important and valuable wildlife species and an ally of agriculture, eating many species of rodents and insects harmful to agriculture. The coyote is also a valuable furbearer bringing thousands of dollars annually to the fur industry.

Unfortunately, the coyote occasionally causes problems by preying on domestic poultry and livestock. Today, predation by coyotes is recognized by the livestock industry and the Department as a potential, but manageable risk to livestock production. Recognizing the risk of predation, livestock producers should follow acceptable and appropriate management practices, and procedures aimed at reducing or preventing coyote damage.
AF advocates the use of pro-active measures to prevent or reduce coyote predation. This includes close supervision of stock, proper carrion disposal, use of guardian animals, predator-proof barrier of electric fences, scare devices, shooting and other lawful means of protecting livestock from coyote predation. AF also supports selective removal of coyotes with appropriate use of specific predator pesticides (called predacides) and neck snares.

The Pest Management Regulatory Agency (PMRA) of Health Canada has approved the use of several restricted pesticides in Alberta for the protection of livestock where coyote predation has been confirmed by an authorized municipal inspector on: cattle, sheep, goat, hogs, poultry, bison, farmed elk, deer and other recognized livestock (i.e. llamas).

_Agricultural Pests Act (Alberta)_

Management of coyote predation on livestock is regulated, in part, by the _Agricultural Pests Act_ (APA) and the _Pest and Nuisance Control Regulations_ (406/86). The regulation declares the coyote to be ‘nuisance’ which allows authorized municipal inspectors to set out or issue coyote control devices and materials to landholders at the discretion of municipal policy and in accordance with provincial and federal legislation. Authority is also granted under the regulations to permit landholders to use coyote control materials issued to them by an authorized inspector to control coyotes.

In addition, the Pest and Nuisance Control Regulations of the APA allows landholders and others authorized by him, to destroy coyotes on land which the landholder owns or controls by:

- Shooting coyotes
- Destroying coyote dens
- Use of authorized poisons under the requirement of the APA and _Pest Control Products Act Canada_ (PCP Act) (mentioned above)
- Use of AF approved neck snares is in compliance with the APA.

AF does not use or supply leg hold traps for coyote predation management. Landholders who wish to trap coyotes or authorizes someone else to trap coyotes on their property should inquire at the local Fish & Wildlife office for further information.

_Inspectors_

Upon appointment by municipal council to carry out the CPMP, the appointee will be required to complete a training course from AF on the program. Included in the initial training will be an overview of coyote predation prevention and avoidance, non-lethal and lethal control strategies, procedures of storage, transportation and use of coyote control devices, hands-on instruction and the roles and responsibilities of those involved in the program. Training may be in the form of a home study manual or via the internet. At the conclusion of the training and having successfully completed a written and practical exam on the use of toxicants, the appointee will receive his/her provincial ‘Form 7 Permit” authorization from AF. The “Form 7 Permit” is valid for five years.
All authorized municipal inspectors ("Form 7 Permit" holders) are required to participate at the next provincial problem wildlife training seminar and attend at least one every five years thereafter. The exam is provided quarterly at Lethbridge, Olds, Edmonton, and Fairview, or as need requires.

One or more municipalities may share an authorized inspector(s) who must be appointed and identified in the ASB or council meeting minutes as the designated person to conduct the CPMP in that municipality.

A municipal inspector certified by AF is authorized under "Form 7 Permit" to use, within his municipal jurisdiction, the coyote control material specified on his/her "Form 7 Permit" Permit. The inspector may issue these materials to a landholder within his/her municipality after the inspector has trained the landholder in coyote predation management and the specific use of the control device(s).

Landholders must be in possession of a valid Form 8 Permit, issued by the "Form 7 Permit" Permit holder to receive and set out AF approved poisons and snares or authorize the municipal inspector to set out these devices on property he/she owns or has under his/her control identified on the permit.

Under the Agricultural Pests Act and the Pest and Nuisance Regulations, the municipal inspector is authorized to issue Form 9 Permits to landholders to use dogs for coyote control. The Form 9 Permit may be issued to the landholder where confirmed coyote predation has occurred within 30 days of application. A landholder who is in possession of a valid Form 9 may authorize a person who is a resident of Alberta to use dogs on property that he/she owns or controls identified on the Form 9 Permit. The Form 9 Permit is valid for a period of 30 days.

Inspectors are to promptly submit an annual written report, which is due January 30th of the following year to AF on the use of all toxicants and control devices (see Appendix I, "Annual Control Device Use Report Form").

**Pest Control Products Act (Canada)**

All predecides used for coyote control in Canada are registered by the Pest Management Regulatory Agency (PMRA) of Health Canada and classed as “restricted products”.

Restricted products may only be used by provincially authorized personnel for specific uses and, as such, are closely monitored and supervised for accountability and compliance with appropriate legislation. Each coyote control product has a ‘product use’ label provided by AF for the coyote predation management program including:

- Compound 1080 tablets
- Livestock Protection Collars
- M-44 Devices
- Gas cartridges
AF poisons and devices are registered for the control of coyotes causing confirmed predation of designated livestock. They are not to be used to control coyote predation of unconfined poultry, pets or hobby animals or for any other reason not directly associated with livestock predation.

Municipal inspectors must store and transport these materials and devices in a locked, properly labelled plastic or metal container (i.e. lockable tool box).

Landholders should not be issued, at one time, more than:

- 3 M-44 cyanide ejectors
- 6 M-44 cyanide cartridges
- 6 Tablets of compound 1080
- Livestock protection collars will be determined by an inspector.

Only AF approved and identified devices and materials will be issued or set out. M-44 stakes are sequentially stamp numbered as belonging to AF. Compound 1080 tablets and the livestock protection collar contain a tracer dye that identifies them as belonging to AF. Neck snares can be used and are commercially available, but must be properly identified by a unique number as identified on the Form 8.

Requests for repeat issuances of devices must be closely examined to ensure restricted product use is justified, including steps taken by the landholder to manage the coyote problem.

Only AF personnel will load livestock protection collars. All restricted products and devices listed above are the property of Alberta Agriculture and Forestry.

**Predation Reporting and Response Action**

1. All complaints of livestock harassment or predation by coyotes should be reported immediately to the local municipality office where the problem occurred. Predation by other wildlife such as eagles, bears, wolves, etc., is to be directed to Fish & Wildlife. Complaints of livestock damage or predation by domestic or feral dogs should be directed to the local RCMP detachment office. Feral pigs (wild boar) should be reported to your local Agricultural Service Board.

2. All complaints of coyote predation must be investigated by an authorized municipal inspector for verification and for recommended course of action. This will involve a physical examination of the predation site by the inspector to assess the situation and to talk to the landholder. The landholder should take steps to preserve the carcass and any other evidence as best as possible (i.e. covering with a tarp, etc.) until the investigator arrives.

3. Coyotes can kill healthy, sick and injured livestock and commonly scavenge dead animals. Occasionally, observations of coyote(s) at a carcass that may have died of other causes may be incorrectly identified as predation. That is why it is important that all coyote predation complaints be completely and thoroughly investigated by the municipal inspector.
4. In the event of confirmed coyote predation, the landholder should take immediate remedial action to protect his livestock from further damage. For information on appropriate action to prevent and control predation, refer to AF publication “Coyote Predation of Livestock” (Agdex 684-19). Cost: $8.00. Order On-Line at www.rtw.cab681
Landholders are expected to provide adequate protection for their livestock.

5. The role of the inspector is to gather and consider all evidence on the property to confirm coyote predation and what course of action is required. The attack site should be closely inspected for evidence such as carcass remains, blood, hair, tracks, and signs of struggle to assist in the confirmation of coyote predation. Eye witness accounts, visible injury to livestock and other indirect evidence are often present at the attack scene and should be gathered for confirmation of predator damage. Municipal inspectors are trained in identifying coyote predation on livestock.

6. A useful publication on identifying types of predation is entitled:

Order On-Line at: www.rtw.ca/b680
AF publications are available by calling 780-427-0391 or email: publications.office@gov.ab.ca

7. Only after all physical and other evidence is considered can the municipal inspector confirm coyote predation has occurred or not and what course of action is required including the use of toxicants or snares.

8. Toxicant use may be warranted where coyote predation is confirmed and toxicants deemed integral to an overall plan that includes other strategies of livestock protection. Using toxicants alone without a long-term plan will only result in increased reliance and use of toxicants without an appreciable reduction in predation losses.

9. Where the municipal inspector decides to set out or issue restricted products, all parts of the PCP Act label for the poison used must be reviewed with the landholder (and a copy given to the landholder). The inspector must emphasize to the landholder the potential hazards associated with poison use including the accidental poisoning of non-targets such as livestock or pets; dogs should be tied or confined during poison use. Toxicants should not be used where a landholder is unwilling to take measures to prevent poisoning of non-target animals.

10. The landholder is responsible for informing close neighbours when restricted devices are used and must set out department provided warning posters when poison or snares are set.

11. Where snares are set out the municipal inspector must provide a copy of the neck snare information sheet to the Form 8 Permit holder on the use and management of the device. All snares must be marked with a unique identifying number which is recorded on the Form 8.
12. Unused tablets, cyanide capsules, or other devices must be returned to the issuing municipal authority by the expiry date of the Form 8 Permit. The municipal inspector is to collect pertinent information from the landholder for the municipal report to AF.

For assistance in resolving difficult or complex coyote predation cases, the municipal inspector should contact AF inspection staff. AF staff will provide resolution consultation as it relates to interpretation of policy, provincial legislation or federal labels and predation management methodology.
## Annual Coyote Control Device Use

**Inspector’s Name**

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### Report for the year:

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<th>M44 Devices</th>
<th>M44 Cartridges</th>
<th>Neck Snares</th>
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### Comments:

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### Inspector’s Signature ____________________________ Date ____________

Send the top copy of this report (and include the copies of all “Form 8 Permit” that have expired or have been completed this year) to:

Animal Health and Assurance Branch  
Inspection and Investigation Section  
Provincial Building  
3rd Floor, 4920 – 51 Street  
Red Deer, AB T4N 6K8
HER MAJESTY, by and with the advice and consent of the Legislative Assembly of Alberta, enacts as follows:

**Interpretation**

1(1) In this Act,

(a) “Court” means the Court of Queen’s Bench;

(b) “Crown” means the Crown in right of Alberta;
(c) “highway” means a highway as defined in the Traffic Safety Act;

(d) “inspector” means a person appointed as an inspector, including an inspector by virtue of office, under section 9;

(e) “land” includes the land down to the low water mark of a stream, or other body of water that is contiguous to or located on land;

(f) “livestock” means cattle, sheep, domestic cervids within the meaning of the Livestock Industry Diversification Act, goats and other captive ruminants, swine, horses and poultry;

(g) “local authority” means

(i) the council of a city, town, village, summer village or district,

(ii) the Minister responsible for the Municipal Government Act, in the case of an improvement district, or

(iii) the Minister responsible for the Special Areas Act, in the case of a special area;

(h) “Minister” means the Minister determined under section 16 of the Government Organization Act as the Minister responsible for this Act;

(i) “municipal secretary” means

(i) in an improvement district, the Minister responsible for the Municipal Government Act or an officer of that Minister’s Department designated by that Minister,

(ii) in a special area, the Minister responsible for the Special Areas Act or an officer of that Minister’s Department designated by that Minister, or

(iii) in any other municipality, the designated officer who has the duties of secretary and if there is no such designated officer, the chief administrative officer;

(j) “nuisance” means an animal, bird, insect, plant or disease declared to be a nuisance under section 2;

(k) “occupant” means a person occupying or exercising control or the right to occupy or exercise control over land or property;

(l) “owner” means

(i) in the case of land, a person who is registered under the Land Titles Act as the owner of land, or
(ii) in the case of personal property, a person who is in lawful possession of it or who has the right to exercise control over it;

(m) “pest” means an animal, bird, insect, plant or disease declared to be a pest under section 2;

(n) “property” means personal property and includes vegetation, but does not include livestock.

(2) A reference in this Act to a bylaw includes, when appropriate, an order of the Minister responsible for the Municipal Government Act and of the Minister responsible for the Special Areas Act.

RSA 2000 cA-8 s1;RSA 2000 cT-6 s192;2003 c26 s19

Declaration of pest or nuisance

2(1) Subject to subsection (2), if the Minister considers that an animal, bird, insect, plant or disease is destroying or harming or is likely to destroy or harm any land, livestock or property in all or part of Alberta, the Minister may, by regulation, declare the animal, bird, insect, plant or disease to be

(a) a pest, or

(b) a nuisance,

throughout Alberta or in part of Alberta.

(2) In subsection (1), “animal” and “bird” do not include

(a) big game,

(b) a bird of prey,

(c) a game bird, or

(d) an endangered animal,

as defined in the Wildlife Act.

1984 cA-8.1 s2;1984 cW-9.1 s99;1989 c17 s1;1990 cL-22.7 s38

Powers of Minister

3(1) The Minister may

(a) investigate any matter,

(b) conduct surveys,

(c) establish programs, or
(d) enter into agreements with any person, local authority, agency or government,

for the purpose of preventing the establishment of, controlling or destroying a pest or nuisance
and preventing or reducing damage caused by a pest or nuisance.

(2) The Minister may exempt any land from the operation of all or part of this Act.

1984 cA-8.1 s3

Delegation of Minister’s powers

4(1) The Minister may in writing delegate to

(a) an employee of the Government of Alberta,

(b) an employee of the Government of Canada,

(c) a local authority, or

(d) a member of a local authority

a power, duty or function conferred on the Minister by this Act and the regulations, except the
power to make regulations.

(2) A power, duty or function delegated to a local authority or a member of a local authority
may be exercised or performed only within the municipality represented by the local authority.

1984 cA-8.1 s4

Duty of individual

5(1) An owner or occupant of land may prevent the establishment of, control or destroy a
nuisance on land the owner owns or occupier occupies.

(2) An owner or occupant of land or property or the owner or person in control of livestock
shall take active measures to

(a) prevent the establishment of pests on or in the land, property or livestock unless
otherwise authorized by the Minister,

(b) control or destroy all pests on or in the land, property or livestock unless otherwise
authorized by the Minister, and

(c) destroy any crop, vegetation or other matter that contributes or may contribute to the
maintenance or spread of a pest on or in the land, property or livestock.

1984 cA-8.1 s5

Duty of local authority

6 A local authority of a municipality shall take active measures
(a) to prevent the establishment of, or

(b) to control or destroy,

pests in the municipality.

1984 cA-8.1 s6

**Occupant of a highway**

7 A local authority may, with respect to a highway that is subject to the direction, management and control of the local authority, by bylaw provide that an owner or occupant of land is, for the purposes of this Act, the occupant of that portion of a highway that lies between the boundary of the land the owner owns or occupier occupies and the centre line of the highway.

1984 cA-8.1 s7

**Applicable Acts**

8 A person or local authority preventing the establishment of, controlling or destroying a pest or nuisance shall do so in accordance with

(a) this Act and the regulations,

(b) if applicable, the *Wildlife Act* and the regulations under it, and

(c) if applicable, the *Environmental Protection and Enhancement Act* and the regulations under it.

1984 cA-8.1 s8;1992 cE-13.3 s246(1);1996 c33 s75

**Inspectors**

9(1) Inspectors may be appointed by a local authority or by the Minister to carry out this Act and the regulations.

(2) An agricultural fieldman under the *Agricultural Service Board Act* is by virtue of that office an inspector under this Act.

1984 cA-8.1 s9

**Appointment of inspectors by local authority**

10(1) The local authority of a municipality shall appoint a sufficient number of inspectors to carry out this Act and the regulations within the municipality.

(2) Two or more local authorities may

(a) jointly appoint inspectors to act within the municipalities represented by the local authorities, and
(b) enter into an agreement for the sharing of the costs of the inspectors appointed jointly.

1984 cA-8.1 s10

Failure to appoint inspectors or properly enforce Act

11(1) The Minister may, if

(a) a local authority does not appoint an inspector, or

(b) in the opinion of the Minister, an inspector appointed by a local authority is not properly enforcing this Act,

after serving notice on the local authority, cause inspectors appointed by the Minister to carry out this Act and the regulations in a municipality.

(2) If an inspector appointed by the Minister is requested to carry out this Act and the regulations in a municipality

(a) pursuant to subsection (1)(a), the inspector appointed by the Minister shall continue to act until the local authority appoints an inspector in accordance with section 10(1), or

(b) pursuant to subsection (1)(b), the appointment by the local authority terminates and that local authority shall not make further appointments until the Minister serves notice on the local authority that the inspector appointed by the Minister is no longer acting.

(3) Salary paid and expenses incurred by the Crown under this section

(a) shall be paid by the local authority on demand

(b) are recoverable by the Minister as if they were a debt due the Crown, and

(c) may be recovered by the Minister by action or by withholding the amount of the salary and expenses from a grant, rent or other money that would otherwise be payable by the Crown to the local authority.

1984 cA-8.1 s11

Notice

12(1) When an inspector is of the opinion that land, property or livestock contains or is likely to contain a pest or should be protected against a pest, the inspector may issue a notice in writing directed to the owner or occupant of the land or property or to the owner or person in control of the livestock

(a) setting out the legal description of the land affected or a description of the livestock affected and the legal description of the land on which the livestock are located,

(b) naming the pest,
(c) specifying the measures to be taken and the material, if any, to be used to prevent the establishment of or to control or destroy the pest, and

(d) requiring the measures described in clause (c) to be taken within a specified period of time.

(2) If a notice is directed to a person other than the owner of land, property or livestock under subsection (1), the inspector shall also serve a copy of the notice on the owner.

(3) A notice issued under subsection (1) and a copy of the notice shall be in a form prescribed by the regulations and shall be served

(a) by delivering it personally to the person who is intended to be served,

(b) by leaving it with a person apparently over the age of 18 years at the dwelling place or place of business of the person who is intended to be served, or

(c) by sending it by double registered mail or certified mail to the last known address of the person who is intended to be served as shown on the assessment roll of the municipality within which the land, property or livestock to which it relates is located.

(4) If, in the opinion of the inspector, service under subsection (3) cannot reasonably be effected, the inspector may post the notice or copy of the notice in a conspicuous place on the land, property or livestock to which it relates, or on the private dwelling house of the person who is intended to be served.

1984 cA-8.1 s12

Compliance with notice

13(1) A person to whom a notice is directed under section 12(1) or a person on whom a copy of the notice is served under section 12(2) shall, subject to a right of appeal given by this Act, carry out the directions contained in the notice.

(2) If

(a) a person fails to comply with a notice issued under section 12 and the appeal period has expired,

(b) an inspector finds a pest on land, property or livestock in respect of which the inspector is not reasonably able to discover the owner, occupant or person in control, as the case may be, and determines that it is not practical to issue a notice under section 12, or

(c) an inspector finds a pest on land, property or livestock that requires immediate measures to be taken in order to prevent its establishment or to control or destroy it,

the inspector may carry out the measures described in the notice or do any things necessary in the inspector’s opinion and consistent with good agricultural practice to prevent the establishment of or to control or destroy the pest.
Appeal to local authority

14(1) A person who

(a) has an interest in land as an owner or occupant, or

(b) has an interest in livestock as an owner or person in control of livestock

and feels personally aggrieved by a notice issued by an inspector under section 12 may appeal to the local authority of the municipality within which the land or livestock is located by filing a notice of appeal under this section.

(2) A notice of appeal shall be in writing and shall set out

(a) the name and address of the appellant

(b) a copy of the notice in respect of which the appeal is being taken,

(c) the legal description of the land affected or a description of the livestock affected and the legal description of the land on which the livestock were located, and

(d) the grounds for appeal.

(3) A notice of appeal shall be served on the municipal secretary

(a) by any of the methods set out in section 12(3), and

(b) within the time specified in the notice issued under section 12 for taking any measure, or within 10 days after service of the notice, whichever is less.

(4) A notice of appeal shall be accompanied with a deposit in an amount set out in the regulations which shall be refunded if the appellant is successful in the appellant’s appeal under this section or in a review under section 15.

(5) A local authority shall at the beginning of each calendar year appoint a committee to hear and determine appeals under this section and on receipt of a notice of appeal a local authority shall refer the appeal to that committee.

(6) Within 5 days after receipt of a notice of appeal, the committee shall hear and determine the appeal and the committee may confirm, rescind or vary the notice that was issued.

(7) The municipal secretary shall, on determination of the appeal, send a copy of the decision together with the written reasons, if any, by double registered mail or certified mail to the appellant.

Review by Minister
An appellant who is dissatisfied with the decision of a committee under section 14 may, within 3 days after the appellant receives a copy of the decision, request a review of the decision or a part of it by the Minister.

The Minister may confirm, rescind or vary the decision of the committee.

Notice stayed pending appeal

If a notice of appeal is served under section 14(3), the notice referred to in that section is stayed until

(a) the appeal under that section is disposed of, or

(b) a review under section 15 is conducted or the time for requesting the review under section 15 has expired without a review being requested.

Powers of inspector

In this section, “land” does not include a private dwelling house.

An inspector may, for the purpose of carrying out the inspector’s duties,

(a) enter at any reasonable hour on any land to inspect the land or any buildings, property or livestock on the land,

(b) on giving reasonable notice, direct the owner or person in control of livestock to assemble and confine the livestock for the purpose of an inspection, and

(c) take specimens of a pest or nuisance and of any matter or thing that contains or is suspected of containing a pest or nuisance.

An inspector shall carry the identification supplied to the inspector by the local authority or Minister appointing the inspector and shall show it on request to a person owning or in charge of anything affected by the inspector’s activities under this Act or the regulations.

Warrant to enter private dwelling house

If it appears to a provincial judge or a justice of the peace, on information laid before the provincial judge or justice of the peace on oath, that there are reasonable and probable grounds for believing that a private dwelling house within the jurisdiction of the provincial judge or justice of the peace contains a pest or nuisance, the provincial judge or justice of the peace may issue a warrant authorizing a peace officer, with or without an inspector, to enter the private dwelling house, by force if necessary, for the purpose of searching for the pest or nuisance.
(2) Before entering a private dwelling house pursuant to this section, a peace officer shall take reasonable steps to find the owner or person in charge of it and shall endeavour to obtain the co-operation of that person.

(3) When a peace officer uses force in entering or searching a private dwelling house, the peace officer shall use no more force than is reasonably required under the circumstances.

1984 cA-8.1 s18

Recovery of inspector’s expenses

19(1) If expenses are incurred by an inspector pursuant to section 13(2), the municipal secretary of the municipality in which the expenses were incurred shall serve a statement of the expenses and a demand for payment on the owner of the land, property or livestock in respect of which the work was carried out.

(2) The statement of expenses and demand for payment shall be served by any of the methods set out in section 12(3).

(3) In the case of expenses incurred for work carried out to land, if the owner fails to pay the amount set out in the statement of expenses and to file a notice of dispute under subsection (4) within 30 days after receiving the statement of expenses and demand for payment, the municipal secretary shall add the amount of those expenses to the tax roll as a tax against the land to which the work was carried out and it shall be collected in the same manner as taxes.

(4) If the owner files with the municipal secretary a notice of dispute denying liability or disputing the amount of the expenses, the local authority is limited to recovering the expenses referred to in subsection (3) by an action against that owner.

(5) In the case of expenses incurred for work carried out to property or livestock, if the owner fails to pay the amount set out in the statement of expenses within 30 days after receiving the statement of expenses and demand for payment, the local authority is limited to recovering those expenses by an action against the owner of the property or livestock.

1984 cA-8.1 s19;1994 cM-26.1 s642(1)

Stop order

20(1) Notwithstanding anything in this Act, if the Minister is satisfied that a person

(a) has contravened or is contravening this Act or the regulations, or

(b) owns or operates anything that causes the maintenance or spread of a pest

the Minister may direct a stop order to that person in accordance with subsection (2).

(2) In a stop order, the Minister may order the person to whom it is directed to

(a) cease the contravention specified in the order,

(b) stop the operation of a plant, structure, equipment or thing specified in the order, either permanently or for a specified period, or
(c) cease the contravention under clause (a) and stop the operation under clause (b),
and the stop order shall contain the Minister’s reasons for making it.

(3) The Minister shall cause a copy of the stop order to be served on the person to whom it is
directed, and that person, on receipt of the copy, shall comply with the stop order forthwith.

(4) A person who is served with the stop order under subsection (3) and fails to comply with
the stop order forthwith is guilty of an offence and liable to a fine of not more than $1000 for
each day that the offence continues.

(5) If the person to whom a stop order is directed fails to comply with the stop order forthwith
on service of a copy of it on the person, the Minister may apply to the Court by originating
notice for an order directing that person to comply with the stop order.

(6) If the person to whom the stop order is directed fails to comply with the Court order,

(a) the failure to comply with the stop order may be dealt with by the Court as a civil
contempt of the Court,

(b) an inspector authorized by the Minister for the purpose and persons assisting the
inspector may, without notice and without incurring liability, enter on any land
and
do any acts necessary to carry out the stop order,

(c) a civil enforcement bailiff may assist the inspector and the inspector’s assistants in
enforcing their powers and duties under clause (b), and

(d) the Minister may recover by action any expenses incurred by the Crown in carrying
out the stop order from the person to whom the stop order was directed.

(7) The Minister may

(a) amend a stop order if the Minister considers it advisable in the circumstances to do so, or
(b) revoke a stop order

and shall notify accordingly the person to whom the stop order was directed.

(8) Service of the stop order, Court order and notification under subsection (7) shall be
effected by any of the methods set out in section 12(3).

1984 cA-8.1 s20;1994 cC-10.5 s110

Regulations

21 The Minister may make regulations

(a) respecting qualifications of inspectors;

(b) respecting the content and use of forms;
(c) respecting the issuance of permits authorizing the keeping of any pest or nuisance and prescribing the conditions on which it may be kept;

(d) permitting, prohibiting and otherwise governing the planting, growing, handling, sale, transportation and disposition of potatoes in all or any part of Alberta;

(e) authorizing an inspector to order the disposition or destruction of potatoes or other matter or to do any other thing to prevent the spread or to control bacterial ring rot;

(f) concerning the manner in which potatoes that contain or may contain bacterial ring rot are to be handled, transported and disposed of, including the manner of packaging and labelling;

(g) concerning the sterilization of any machinery, equipment and storehouse employed in the production, storage or distribution of potatoes;

(h) authorizing an inspector to inspect potatoes at any point in Alberta or while the potatoes are being transported to determine whether they contain bacterial ring rot;

(i) establishing areas in Alberta to which all or part of the regulations apply;

(j) prohibiting and restricting the removal from any area or the movement in an area of any crop, vegetation, livestock, animal or other matter;

(k) prohibiting or restricting the use of and governing the disposition or destruction of any crop, vegetation, livestock, animal or other matter that may contribute to the spread of a pest or nuisance;

(l) concerning the procedure to be followed in an area for controlling, destroying or preventing the establishment of a pest or nuisance;

(m) naming, approving, distributing or arranging for or approving the distribution of any equipment, vehicle or device for or incidental to the control of a pest or nuisance, with or without conditions;

(n) designating the area or areas in Alberta within which any poison, insecticide, compound, device or equipment may be used for the purposes of this Act and the regulations;

(o) appointing persons to supervise the use of any poison, insecticide, compound, device or equipment for the purposes of this Act and the regulations;

(p) defining and classifying any poison, insecticide, compound, device and equipment for the purposes of this Act and the regulations;

(q) governing, prohibiting or restricting the use of any poison, insecticide, compound, device, vehicle, control technique or equipment for the purposes of this Act and the regulations.

1984 cA-8.1 s21;1989 c17 s1
Prohibitions

22 No person shall

(a) in any manner obstruct an inspector in the discharge of the inspector’s duties,

(b) wilfully fail to use or wilfully misuse any poison, insecticide, compound, device or equipment, or

(c) for propagation purposes acquire, sell, distribute or use any seed, root, tuber or other vegetable material containing a pest.

1984 cA-8.1 s22

Offences and penalties

23 A person who contravenes this Act or the regulations is guilty of an offence and liable to a fine of not more than $5000 and in default of payment to a term of imprisonment of not more than 60 days.

1984 cA-8.1 s23

Act binds Crown

24 The Crown is bound by this Act.

1984 cA-8.1 s24

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ALBERTA REGULATION 184/2001

Agricultural Pests Act

PEST AND NUISANCE CONTROL REGULATION

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Schedules

Interpretation
1(1) In this Regulation,

(a) “Act” means the Agricultural Pests Act;

(b) “Department” means the Minister’s Department;

(c) “import” means import into Alberta;

(d) “infestable item” means any crop, vegetation, produce, livestock or other animal, machinery, equipment or anything else, other than land, that is capable of being infested;

(e) “infested” means having a condition that shows signs of the presence of a pest;

(f) “local inspector” means an inspector who has the requisite local jurisdiction for the action in question and is not a provincial inspector;

(g) “market” means a stockyard, auction market or other place where any infestable item is held for sale, assembly, shipment or other disposal;

(h) “provincial inspector” means an inspector appointed by the Minister under section 9(1) of the Act;

(i) “sell” means

(i) sell or barter, or offer to do so, or

(ii) solicit, advertise, display or expose for, or with a view to effecting a, sale or barter.

(2) References in this Regulation to a numbered Form are references to the form bearing that number, as set out in Schedule 1.

Pests

2(1) The following continue to be declared pests throughout Alberta:

(a) Bacterial ring rot (Clavibacter michiganensis subs. sepedonicus);

(b) Black leg of canola (the virulent strain) (Leptosphaeria maculans);

(c) Columbia River root knot nematode (Meloidogyne chitwoodi);

(d) Dutch elm disease (Ophiostoma ulmi and Ophiostoma nova-ulmi)

(e) Native elm bark beetle (Hylurgopinus rufipes);

(f) European elm bark beetle (Scolytus multiistriatus);

(g) Dwarf bunt (Tilletia controversa);

(h) Fireblight and the causal bacterium (Erwinia amylovora);
(i) Flag smut of cereals (*Urocystis agropyri*);

(j) Golden nematode (*Globodera rostochiensis*);

(k) Grasshopper (*Locustidae*);

(l) Head smut of corn (*Spacelotheecia reiliana*);

(m) Karnal bunt (*Tilletia indica Mitra*);

(n) Norway rat and any other rat species or strain derived from the genus *Rattus*;

(o) Potato wart (*Synchytrium endobioticum*);

(p) Stem and bulb nematode (*Ditylenchus dipsaci*);

(q) Warble fly (*Hypoderma species*);

(r) White rot of onions (*Sclerotium cepivorum Berk*);

(s) Gypsy moth (*Porthetria dispar L.*);

(t) Africanized bee (*Apis mellifera adansonii*);

(u) Lesser grain borer (*Rhyzopertha dominica*);

(v) Rabies (*Rhabdoviruses*);

(w) Fusarium head blight (*Fusarium graminearum*);

(x) Chalkbrood (*Ascosphaere aggregata*);

(y) Clubroot (*Plasmodiophora brassicae*).

(2) Wild boar (*Sus scrofa*) is declared to be a pest where it is at large in Alberta.

AR 184/2001 s2;150/2003;56/2007;64/2008

Nuisances

3 The following continue to be declared nuisances throughout Alberta:

(a) Coyote (*Canis latrans*);

(b) Skunk (*Mephitis mephitis*);

(c) Richardson’s ground squirrel (*Spermophilus richardsonii*);

(d) Franklin’s ground squirrel (*Spermophilus franklinii*);

(e) Thirteen-lined ground squirrel (*Spermophilus tridecemlineatus*);
(f) Columbian ground squirrel (*Spermophilus columbianus*);

(g) Northern pocket gopher (*Thomomys talpoides*);

(h) Deer mouse (*Peromyscus maniculatus*);

(i) Meadow vole (*Microtus pennsylvanicus*);

(j) House mouse (*Mus musculus*);

(k) Bushy-tailed wood rat (*Neotoma cinerea*);

(l) English sparrow (*Passer domesticus*);

(m) Rock dove (*Columba livia*);

(n) European starling (*Sturnus vulgaris*);

(o) Magpie (*Pica pica*).

**Transactions, etc., in pests and infested matter**

4(1) A person shall not import, purchase, sell or otherwise dispose of, transport, distribute or plant any infestable item that is infested or any pest without the prior written authorization to do so of a provincial inspector or, if the article is to be kept in Alberta, of a local inspector who is empowered to act in the local jurisdiction where it is to be kept.

(2) Subsection (1) does not apply with respect to

(a) the purchase and sale at a market of livestock that bears a pest infestation tag attached to it under section 5(1), or

(b) any incidental importation and transportation of that livestock to, and any transportation of it from, the market.

(3) If an infestable item that is or is suspected to be or that subsequently transpires to be infested, or a pest, is or was imported, purchased, sold or otherwise disposed of, transported, distributed or planted, each person involved in that activity shall provide to an inspector, on request, the names and addresses of all other persons known to be so involved, within 24 hours of the request or within such longer period as is specified by the inspector.

**Pest infestation tag**

5(1) To facilitate the identification of livestock so as to help prevent the spread of an infestation, an inspector may attach a pest infestation tag to the livestock in the form set out in Form 1.

(2) Subsection (1) does not apply to livestock destined for immediate slaughter.
A person shall not remove or have removed a pest infestation tag attached under subsection (1) until

(a) authorized to do so by an inspector, or

(b) in the case of cattle, the cattle have been sold at and removed from a market.

**Detention order and its effect**

6(1) A notice under section 12(1) of the Act must be in the form set out in Form 2.

(2) On issuing a notice under section 12(1) of the Act in respect of livestock or other property, excluding land, an inspector may order its detention by attaching to it a pest detention tag in the form set out in Form 3.

(3) A person shall not sell or otherwise dispose of, purchase, transport, distribute or plant anything detained under subsection (2) before it is released under subsection (4).

(4) An inspector may release the property detained under subsection (2) by providing a written notice of release of it in the form set out in Form 4.

**Minister's authority to declare a quarantine**

7 The Minister may by order declare a quarantine in all or any part of Alberta of any land or infestable item that is infested and fix the duration and conditions of the quarantine, including a prohibition of or restriction on the movement of any infestable item by any person.

**Methods to control nuisance**

8 An owner or occupant of land may control a nuisance on that land by means that are generally considered to be sound husbandry practices and that comply with all applicable laws.

**Seed potatoes**

9(1) In this section and Form 5, “bacterial ring rot”, “non-certified potatoes” and “seed potatoes” have the meanings respectively assigned to them by Part II of the *Seeds Regulations* (Canada), C.R.C., c.1400.

(2) A person who imports seed potatoes shall, at the earliest practicable time, give notice of the place where they will be made available for inspection, to the local inspector nearest to that place.

(3) A person shall not

(a) plant seed potatoes on land that, in the previous growing season, was infested, or

(b) store seed potatoes that are infested

with bacterial ring rot.
(4) A person shall not plant seed potatoes unless

(a) they meet the standards for any of the classes established in section 47 of the Seeds Regulations (Canada), C.R.C., c.1400, and

(b) that person has documentary evidence that they meet those standards.

(5) Subsection (4) does not apply to the planting of potatoes

(a) by a person for consumption only by that person’s household and acquaintances, with no sale involved, or

(b) from non-certified potatoes by a person who holds a permit referred to in subsection (6).

(6) The Minister may issue a permit for the purposes of subsection (5)(b) in the form set out in Form 5, and may attach the conditions on the planting that are specified in the permit.

Notification of infestation

10 An inspector who finds on any premises evidence of an infestation of any crop may notify persons engaged in the growing, transporting or processing of any crop that may be affected by the infestation, or any organizations representing them, of the infestation, including the location of those premises and the name of their occupants, if the inspector considers such notification necessary or advisable with a view to preventing the spread of or controlling the infestation.

Permit to purchase, keep or sell rats

11(1) The Minister may, on application in writing, issue a permit in the form set out in Form 6 allowing a person who operates a research facility or zoo or an inspector to purchase, keep or sell live rats if the facility where the rats are to be kept meets the minimum standards required by the Minister.

(2) A person shall not purchase, keep or sell live rats unless the person holds a permit issued under subsection (1).

Protection of livestock from warble larva

12(1) In this section,

(a) “lactating dairy cows” means cows whose milk is used for human consumption;

(b) “warble larva”, commonly known as “cattle grub”, means the larval stage of the warble fly.

(2) The owner of livestock that contains or is likely or is suspected to contain warble flies shall ensure that the following measures, so far as applicable, are taken with a view to destroying or preventing the occurrence in the livestock of warble larva:

(a) treat all cattle, other than lactating dairy cows, from March 1 to April 30 and from September 1 to November 30 in each year with a pesticide registered under the
Pest Control Products Act (Canada) that is designed to be absorbed by and circulated in cattle for the purpose of destroying warble larva in the cattle, in accordance with the label on the pesticide container;

(b) treat all lactating dairy cows from February 15 to June 15 in each year at 1-month intervals with an insecticide registered under the Pest Control Products Act (Canada) that has to come in actual contact with a warble larva in order to destroy the warble larva;

(c) comply with the directions of an inspector with respect to destruction of warble larva in the livestock.

(3) The owner of livestock animals that are imported and are or are suspected to be infested with warble larva shall, at the first point of unloading of the livestock, ensure that they are treated in accordance with the applicable provisions of this section.

(4) Local inspectors shall

(a) ensure that all live livestock offered for sale at markets designated by the Minister in their jurisdiction are inspected for warble larva during the period when warble larva are usually visible in the bodies of livestock animals, and

(b) attach a pest infestation tag to livestock found to be infested with warble larva in accordance with section 5.

Examination facilities in animal markets

13 The owner and the operator of a market where live animals are kept shall ensure that facilities satisfactory to an inspector are provided there for the proper examination of the animals.

Coyote and skunk control

14(1) In this section and in Forms 7 and 8,

(a) “device” means a device that can be used to control coyotes or skunks;

(b) “poisonous material” means any substance or equipment, or a combination of both, that can be used to poison a coyote or skunk;

(c) “use” includes set.

(2) A person so authorized by the Minister may issue a “Form 7 Permit” to a person who has been trained by the Department in the use, storage and handling of devices and poisonous material in respect of which the permit is issued.

(3) A person who holds a “Form 7 Permit” may issue Form 8 permits.

(4) A person shall not use any device or poisonous material with a view to controlling coyotes or skunks unless the person holds
(a) a “Form 7 Permit” authorizing the use of such a device or material, if the use is to be on land belonging to another person, or

(b) a Form 8 permit authorizing the use of such a device or material, if the use is to be on the permit holder’s own land (and whether or not the holder holds a “Form 7 Permit”).

(5) A person shall not remove or alter a written warning issued by the Department concerning the use or storage of any device or poisonous material unless the person holds

(a) a “Form 7 Permit” authorizing that removal or alteration, if the use or storage is to be on land belonging to another person, or

(b) a Form 8 permit authorizing that removal or alteration, if the use or storage is to be on the permit holder’s own land.

(6) The holder of a “Form 7 Permit” may issue the devices and poisonous material listed in the permit to the holder of a Form 8 permit for the control of coyotes or skunks.

(7) The holder of a “Form 7 Permit” shall not use any device or poisonous material with a view to controlling coyotes or skunks on land belonging to another person without first obtaining the permission to do so contained in a Form 8 permit from its owner or occupant.

(8) Subsection (7) does not apply to the use of a device or poisonous material for rabies control on land that is unoccupied in an area designated in Schedule 2 as a rabies control zone.

(9) A person shall not use a device or poisonous material with a view to controlling coyotes unless it has letters, numbers or a chemical marker indicating its approval by the Minister.

(10) Subsections (4), (6) and (9) do not apply to an activity specifically authorized by or under the Wildlife Act or the Environmental Protection and Enhancement Act.

(11) A person shall not shoot coyotes or skunks or destroy dens of coyotes or skunks unless that person

(a) holds a “Form 7 Permit” and, if the shooting is to take place on another person’s land, has the written permission of its owner or occupant, and

(b) is acting in compliance with all other applicable laws.

(12) A person who does not hold a “Form 7 Permit” shall not issue a device or poisonous material knowing or believing that it is to be used to control coyotes or skunks.

(13) A Form 8 permit is not valid for more than 30 days.

(14) All devices and poisonous material issued under subsection (6) remain the property of the Government (represented by the Department) and may be recalled by it at any time.

(15) A person so authorized by the Minister may issue a Form 9 permit to the owner or occupant of land authorizing the use of dogs to control coyote on that land, and such a permit is not valid for more than 30 days.
(16) Notwithstanding section 8, an owner or occupant of land may control a coyote on that land by destroying, or giving prior authorization to a resident of Alberta to destroy, the coyote with the use of dogs where

(a) livestock predation caused by a coyote has occurred within the period of 30 days before the confirmation under clause (b),

(b) that predation has been confirmed in writing by an inspector,

(c) a Form 9 permit has been issued by an inspector in respect of that predation and is still valid and the terms and conditions of the permit are adhered to, and

(d) if the destruction is to be effected by a resident of Alberta who is not that owner or occupant, that resident has been specifically authorized by that owner or occupant in writing on the permit to do so.

AR 184/2001 s14;201/2001

Conditions on inspector’s authorization

15 An inspector may set any conditions considered appropriate on any authorization given by the inspector under this Regulation.

Deposit on notice of appeal

16 The amount of the deposit required by section 14(4) of the Act is $100.

Repeal

17 The Pest and Nuisance Control Regulation (AR 406/86) is repealed.

Expiry

18 For the purpose of ensuring that this Regulation is reviewed for ongoing relevancy and necessity, with the option that it may be repassed in its present or an amended form following a review, this Regulation expires on August 31, 2011.

AR 184/2001 s18;160/2006
Schedule 1

FORM 1
(Sections 5(1) and 12(4)(b))

PEST INFESTATION TAG (NUMBER _________)

Agricultural Pests Act

PEST AND NUISANCE CONTROL REGULATION

This livestock animal is or is suspected to be infested with an infestation that has been declared a pest under the Agricultural Pests Act.

It is unlawful to remove this tag except in accordance with the Pest and Nuisance Control Regulation made under that Act.

FORM 2
(Section 6(1))

NOTICE TO CONTROL PESTS

Agricultural Pests Act

PEST AND NUISANCE CONTROL REGULATION

To (owner or occupant of land or property or owner or ______ person in control of livestock) of (address)

You are hereby notified that (description of land or livestock or other property) located on the ___ quarter of section ___ township ___ range ___ west of the ___ meridian, Alberta, as indicated on the diagram below, contains or is likely to contain or should be protected against (name of pest), which has been declared a pest by the Pest and Nuisance Control Regulation made under the Agricultural Pests Act, and you are directed to take the following measures:

(description of measures to be taken, including the material, if any, to be used against the pest)

All of the above measures must be completed within _________ days from the date of issue of this notice, failing which action may be taken in accordance with the legislation referred to above. This notice is issued under section 12(1) of the Agricultural Pests Act. An appeal against this notice may be served on the municipal secretary, accompanied by a deposit of $100, before the expiry of the time limit stated above or the period of 10 days from service of the notice, whichever expiry date occurs first, and otherwise made in accordance with the Agricultural Pests Act.
FORM 3
(Section 6(2))

PEST DETENTION TAG (NUMBER _________)

Agricultural Pests Act

PEST AND NUISANCE CONTROL REGULATION

The following item, that is (description of livestock or other property) is ordered to be detained in accordance with the following conditions:

(specify conditions of detention)

(Signature of Inspector)

FORM 4
(Section 6(4))

NOTICE OF RELEASE

Agricultural Pests Act

PEST AND NUISANCE CONTROL REGULATION

To (owner of livestock or other property or person in control of livestock) of (address)

You are hereby notified that (livestock or other property detained), marked (way in which item is marked, if applicable) and located at (location of item), which was placed under detention and identified by having pest detention tag No. ___ under the Pest and Nuisance Control Regulation made under the Agricultural Pests Act attached to it, is now released from detention and may be disposed of. The pest detention tag may now be removed from it.

(Date of Issue) (Signature of inspector)

(Address)

(Telephone Number)
FORM 5
(Section 9(6))

PERMIT TO PLANT FROM NON-CERTIFIED POTATOES

Agricultural Pests Act

PEST AND NUISANCE CONTROL REGULATION

This is to certify that (name of permit holder) of (address) is authorized to plant ____ hectares of seed potatoes on _____ quarter of section ____________ township ____ range _____ west of the ____ meridian, Alberta, from the following source of non-certified potatoes:

______________________________________________________

The following conditions apply:

______________________________________________________

(Date) __________

Minister responsible for the Agricultural Pests Act

FORM 6
(Section 11(1))

PERMIT TO PURCHASE, KEEP OR SELL RATS

Agricultural Pests Act

PEST AND NUISANCE CONTROL REGULATION

Name: (Research facility or zoo operator or inspector)
Address of facility or zoo, or inspector: ___________________________

Under the Pest and Nuisance Control Regulation made under the Agricultural Pests Act, the Minister responsible for that Act permits the above-named to purchase and sell live rats and to keep live rats at (location where to be kept), Alberta until the _________ day of __________, 20___.

This permit may be revoked by the Minister responsible for that Act at any time.

(Date) __________

Minister responsible for the Agricultural Pests Act
FORM 7
(Section 14)

PERMIT FOR COYOTE AND SKUNK CONTROL
ON ANOTHER PERSON’S LAND

Agricultural Pests Act

PEST AND NUISANCE CONTROL REGULATION

<table>
<thead>
<tr>
<th>Name of permit holder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permit holder’s employer’s name and address</td>
</tr>
</tbody>
</table>

The permit holder named above has been trained in the use, storage and handling of

- □ devices and poisonous material for coyote control.
- □ devices and poisonous material for skunk control.

The permit holder is authorized to do the things ticked below until _____ (date when permit expires): _____

- □ use, store and handle the following devices and poisonous material: (devices and poisonous materials covered by this ____ permit)
- □ issue them to an owner or occupier of land who holds a Form 8 permit referred to below and train that owner or occupier to use, handle and store them.
- □ remove or alter a written warning issued by the Department concerning their use or storage.
- □ shoot coyotes and/or destroy their dens.
- □ shoot skunks and/or destroy their dens.
- □ issue Form 8 permits under the Pest and Nuisance Control Regulation.

The rules and methods for using, storing and handling the devices and poisonous material are set out in applicable provisions of

- the Agricultural Pests Act and the Pest and Nuisance Control Regulation (Alberta),
- the Pest Control Products Act (Canada), and
- the policies of Alberta’s Department of Agriculture and Rural Development.

Authorized issuer  Date  
Address of issuer
FORM 8
(Section 14)
PERMIT TO USE COYOTE OR SKUNK CONTROL
MATERIAL OR DEVICES ON OWN LAND
Agricultural Pests Act
PEST AND NUISANCE CONTROL REGULATION

Name of land owner or occupant | Location of owner or occupant’s own land on which device or poisonous material to be used:
--- | ---
Mailing address | Postal code | Telephone

The permit holder is authorized to use devices or poisonous material to control, on the land described above,

1. coyote predation of:
   - cattle □
   - sheep □
   - goats □
   - swine □
   - farmed deer or elk □
   - poultry □
   - other □

or

2. rabies of:
   - skunks □
   - other □

□ The permit holder is authorized to remove or alter a written warning issued by the Department concerning the use or storage of those devices or poisonous material on his/her own land.

Initial one box:

□ I have received
  - the devices or poisonous material listed below
  - the Pest Control Products Act (Canada) label and warning posters for them
  - instructions for their use, storage and handling

I agree to
  - use the device or poisonous material only on the land described above
  - follow the instructions given on the product label, and by the inspector named below
  - keep a map of where I place them on the land
  - return all unused devices and poisonous material by the expiry date given below
  - report to the inspector on the success of my coyote or skunk control efforts by the expiry date given below.

□ I give my permission for the holder of a Form 7 Permit for Coyote and Skunk Control to use the
material listed below on the land described above.

<table>
<thead>
<tr>
<th>Device or poisonous material</th>
<th>Serial numbers</th>
<th>Amount issued to owners or occupants</th>
<th>Amount used by inspectors</th>
<th>For inspector use only</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Amount returned</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Date returned</td>
</tr>
<tr>
<td>1080 tablets</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M44 devices</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M44 cartridges</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neck snares</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signature of land owner or occupier

Date signed

Name of inspector referred to above

Date this permit expires

Signature of issuer (holder of a Form 7 permit)
FORM 9
(Section 14)

PERMIT TO DESTROY COYOTE USING DOGS

<table>
<thead>
<tr>
<th>Name of land owner or occupant</th>
<th>Location(s) of owner or occupant’s land on which coyote may be destroyed: Qtr Sec Twp Rge W of</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mailing address</td>
<td>Postal code</td>
</tr>
</tbody>
</table>

- □ * The permit holder is authorized to use dogs to destroy coyote on the land described above.
- □ * I (owner or occupant’s name) authorize (name and address of resident of Alberta) to use dogs to destroy coyote on the land I own and occupy as described above.

(Signature of owner or occupant) (Date)

- □ I confirm that livestock predation caused by coyote has occurred on the land described above within the last 30 days.

(Signature of inspector) (Date of issue)

This permit is only valid for 30 days from the date of issue.

* The inspector is to delete whichever paragraph is not applicable.

Rabies Control Zones

1. The following areas are designated as rabies control zones:
   
   (a) townships 1 to 63 in ranges 1 to 4, west of the 4th meridian;

   (b) townships 1 to 5 in ranges 5 to 29, west of the 4th meridian except land within Waterton Lakes National Park;

   (c) townships 3 to 5 in ranges 1 to 5, west of the 5th meridian except land within Waterton Lakes National Park.

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Snare Label

1. Snares may not be used without proper authorization from Animal Health and Assurance Branch. You must comply with all provisions of the Agricultural Pests Act, 2000, and regulations.

2. Only snares that are marked so as to identify the user shall be used.

3. Do not set snares closer than 0.8 km (0.5 mi) from any city, town or village and not closer than 0.4 km (0.25 mi) from any inhabited dwelling, excluding that of the producer for who is setting the snares for predation control.

4. Do not set snares within sight of a travelled road.

5. Maintain a record of all snare locations.

6. All snares must be inspected daily.

7. All snares are to be removed after 30 days.

8. A Form 8 permit with landowner’s signature is required before snares can be set out.

9. Warning signs must be posted at all legal access points to property were snares are set.
SODIUM MONOFUROACETATE
PREDACIDE COYOTE CONTROL

RESTRICTED
TOXIC COLLAR SOLUTION
READ THE LABEL BEFORE USING
GUARANTEE: Sodium mono fluoroacetate 10 mg per ml solution
REGISTRATION NO. 24512 PEST CONTROL PRODUCTS ACT
NET CONTENTS: 60 ml collar device

GOVERNMENT OF THE PROVINCE OF ALBERTA
Department of Agriculture, Food and Rural Development
Livestock Development Division
J.G. O’Donoghue Building
7000 – 113 Street
Edmonton, Alberta
T6H 5T6

NOTICE TO USER:
This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions. The product used under this label remains the property of the Alberta Government.

NATURE OF RESTRICTION:
This product is for storage, use and handling only by persons authorized under the Alberta Agricultural Pests Act.

RESTRICTED USES:
COYOTE
Toxic Collar
Place toxic collars containing up to 60 ml of solution on sheep or goats where predation has occurred. Each toxic collar shall be monitored by the applicator or landholder at least every 48 hours.

Use Limitations
1. For use where there is active predation of sheep or goats.
2. Toxic collars must not be set nearer than 800 metres from the boundary of a hamlet, village, town or city, nor closer than 400 metres from a residence except that of the landholder who has approved the use of the collars.
3. The user must immediately post warning signs at all normal access points to land where toxic collars are in use and remove the signs when the collars are no longer used.
4. A copy of this label must be provided by the user to the landholder where toxic collars are set.
5. The user or the livestock owner must monitor toxic collars at least every 48 hours to keep accurate records on the use of each toxic collar.

**PRECAUTIONS:**
KEEP OUT OF REACH OF CHILDREN AND UNAUTHORIZED PERSONNEL.
Sodium monofluoroacetate is toxic to all warm-blooded animals. Store toxic collars under lock and key in a dry place away from food, feed, domestic animals, and corrosive chemicals. Do not use in any manner that could contaminate food or feed. Wear gloves when handling. Wash hands thoroughly before eating or smoking. Remove guardian dogs from sheep or goats while toxic collars are set.

**DISPOSAL:**
Burn damaged or unusable toxic collars at high temperature, or bury to a depth of 60 cm. For information on the disposal of unused, unwanted product contact the provincial regulatory agency or the manufacturer. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**FIRST AID INSTRUCTIONS:**
Speed is essential. Immediately cause vomiting by inserting a finger down the throat. Repeat until vomit fluid is clear. Then give 30 ml of Epsom salts in water. Have victim lie down and keep warm and quiet. Call a doctor or the Poison Control Centre (1-800-332-1414) immediately. Take container, label or product name and Pest Control Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:**
Sodium monofluoroacetate (1080) poisoning results from fluoroacetate changing into fluoroacetate within cell mitochondria. Poisoning is characterized by a symptom-free period of 0.5 to 2 hours or longer between ingestion and onset of symptoms (nausea, vomiting, diarrhea, and hyperactive behaviour leading to convulsions). In monkeys, and presumably in man, effects on the heart are the primary cause of death. The first symptoms of poisoning are changes of heart sounds and premature, weak contractions. No effective antidote is known, but treating the symptoms is effective in approximately 50% of human cases. Immediately cause a victim to vomit all stomach contents and give Epsom salts (magnesium sulphate). Compounds capable of supplying acetate ions give antidotal effects in animals including monkeys; the choice drugs are acetate and ethanol (2 g/kg of each). A single dose of magnesium sulphate (800 mg/kg) injected into muscle as a 5-per cent solution has saved the life of rats dosed with lethal amounts of sodium monofluoroacetate. Complete quiet and rest are required. Symptoms of non-lethal sodium monofluoroacetate poisoning will usually subside within 12-24 hours.
This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.
SODIUM MONOFLUOROACETATE
PREDACIDE
COYOTE CONTROL AND WOLF CONTROL
RESTRICTED

READ THE LABEL BEFORE USING
GUARANTEE: Sodium monofluoroacetate 5 mg per tablet
REGISTRATION NO. 18300 PEST CONTROL PRODUCTS ACT
NET CONTENTS: 5 mg per tablet
GOVERNMENT OF THE PROVINCE OF ALBERTA
Department of Agriculture, Food and Rural Development
Animal Industry Division
J.G. O'Donoghue Building
7000 — 113 Street
Edmonton, Alberta
T6H 5T6

NOTICE TO USER:
This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

NATURE OF RESTRICTION:
This product is for storage, use and handling only by persons authorized under the Alberta Agricultural Pests Act and by designated Fish and Wildlife Officers of the Government of Alberta.

RESTRICTED USES:
DIRECTIONS FOR USE
COYOTE
Single Dose Bait
Place one tablet into a bait of about 100g (e.g. chicken head). Place up to three of these poisoned baits at a coyote site. Cover treated baits with 5 - 10 cm of soil, snow, vegetation or other material to prevent exposure to birds.
Limitations 1 through 4 inclusive, 10 through 13 inclusive

Multi Dose Bait
Place up to six tablets into a carcass at a coyote control site.
Limitations 1 through 4 inclusive, 10 through 13 inclusive.

WOLF
Small Bait
Place three tablets into a bait of about 100g. Conceal up to six of these baits under approximately 30 cm of snow or 15 cm of loose soil along trails leading to an unpoisoned carcass or in a circle around an unpoisoned carcass.
Limitations 4 through 13 inclusive
Large Bait

Place up to twelve tablets into a carcass that is securely anchored. Cover the bait with 30 cm of snow or 15 cm of loose soil.

Limitations 4 through 13 inclusive

Use Limitations

1. For use where verified predation of livestock or game production animals has occurred within the past 30 days.

2. For use by Alberta Fish and Wildlife Services personnel on public land where predation of domestic animals or other problems occur requiring coyote removal.

3. Sodium monofluoroacetate tablets must not be set nearer than 800 metres from the boundary of a hamlet, village, town or city, nor closer than 400 metres to a residence except that of the landholder who has approved the use of the tablets.

4. The user of tablets must remove and destroy all poisoned baits within 15 days of initial placement.

5. For use only by designated Fish and Wildlife Officers of the Alberta Government.

6. For use where verified wolf predation of domestic animals has recently occurred or where a serious threat to human safety exists.

7. For use only under official approval by the Minister responsible for wildlife, where predation has been identified as the primary factor affecting survival of a specific wildlife population.

8. The user of tablets must remove and destroy poison bait within 30 days of placement between April and October 31st and within 90 days of placement between November and March 31st.

9. Do not set bait within 800 metres of an inhabited dwelling.

10. The user of tablets must immediately post warning signs at all normal access points to land where poisoned baits are set and remove signs at end of poison use.

11. The user of tablets must provide a copy of this label to the landholder on whose land tablets are being used.

12. The user of tablets must monitor and keep accurate records on the use of each poisoned bait.

13. The user of tablets must inspect poisoned bait at least every 7 days.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN AND UNAUTHORIZED PERSONNEL.
Sodium monofluoroacetate is toxic to all warm-blooded animals. Store sodium monofluoroacetate tablets under lock and key in a dry place away from food, feed, domestic animals, and corrosive chemicals. Do not use in any manner that could contaminate food or feed. Wear gloves when handling tablets. Wash hands thoroughly before eating or smoking. Place poisoned baits to minimize non-target poisoning of wild and domestic animals. Keep dogs and cats on a leash or confined when poisoned baits are set.

DISPOSAL:

Burn unconsumed poisoned baits, toxicant containers and damaged or unusable tablets at high temperature or bury to a depth of 60 cm. For information on the disposal of unused, unwanted product and the cleanup of spills contact the provincial regulatory agency or the manufacturer.
FIRST AID INSTRUCTIONS:

Speed is essential. Immediately cause vomiting by inserting a finger down the throat. Repeat until vomit fluid is clear. Then give 30 ml of Epsom salts in water. Have victim lie down and keep warm and quiet. Call a doctor or the Poison Control Centre (1-800-332-1414) immediately.

TOXICOLOGICAL INFORMATION:

Sodium monofluoroacetate poisoning results from fluoroacetate changing into fluoroacetate within cell mitochondria. Poisoning is characterized by a symptom-free period of 0.5 to 2 hours or longer between ingestion and onset of symptoms (nausea, vomiting, diarrhea, and hyperactive behaviour leading to convulsions). In monkeys, and presumably in humans, effects on the heart are the primary cause of death. The first symptoms of poisoning are changes of heart sounds and premature, weak contractions. No effective antidote is known, but treating the symptoms is effective in approximately 50% of human cases. Immediately cause a victim to vomit all stomach contents and give Epsom salts (magnesium sulphate). Compounds capable of supplying acetate ions give antidotal effects in animals including monkeys; the choice drugs are acetate and ethanol (2g/kg of each). A single dose of magnesium sulphate (800 mg/kg) injected into muscle as a 50% solution has saved the life of rats dosed with lethal amounts of sodium monofluoroacetate. Complete quiet and rest are required. Symptoms of non-lethal sodium monofluoroacetate poisoning will usually subside within 12 - 24 hours.
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SODIUM CYANIDE

PREDACIDE

RESTRICTED

COYOTE CONTROL

READ THE LABEL BEFORE USING
GUARANTEE: Sodium Cyanide - 84 %
REGISTRATION NO. 25108 PEST CONTROL PRODUCTS ACT
NET CONTENTS: 840 MG OF SODIUM CYANIDE PER M-44 CARTRIDGE

GOVERNMENT OF THE PROVINCE OF ALBERTA
Alberta Agriculture and Food
Regulatory Services Division
2nd Floor, Agronomy Building
6903 – 116 Street
Edmonton, Alberta
T6H 5Z2
Tel. 1-800-332-1414

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use a control product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

The product and associated equipment used under this label remains the property of the Alberta Government.

NATURE OF RESTRICTION:
This product is for storage, use and handling only by persons authorized under the Alberta Agricultural Pests Act and by designated Fish and Wildlife Officers of the Government of Alberta.

RESTRICTED USES:
COYOTE
Place up to three cyanide cartridges on land where a site is identified for coyote control.

Use Limitations

1. For predator control where a person in possession of a Form 7 permit under the Agricultural Pests Act (ALBERTA) or a Fish and Wildlife Officer has verified that coyote predation of livestock or game production animal has recently occurred.
2. For use by Alberta government authorized personnel to control rabies.
3. The user must remove cyanide cartridges within 30 days of placement.
4. Sodium cyanide must not be set nearer than 800 metres from the boundary of a hamlet, village, town or city, nor closer than 600 metres to a residence except that of the landholder who has approved the use of poison.
5. The user must immediately post warning signs at all normal entry points to land where sodium cyanide is in use and remove the signs when the poison is consumed or removed.
6. The user must keep accurate records of when each cartridge is set.
7. The user must inspect cyanide cartridges at least every 3 days.
8. The user must provide a copy of this label to the landholder when cyanide cartridges are set.
PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN AND UNAUTHORIZED PERSONNEL. Sodium cyanide can kill all warm-blooded animals. It is extremely poisonous if swallowed, inhaled or absorbed through the skin. Do not breathe cyanide dust or gas. Store cyanide cartridges under lock and key in a dry, well ventilated place away from food, feed, domestic animals, and corrosive chemicals. Keep children, unauthorized personnel as well as dogs and other domestic animals away from set cyanide cartridges. Wear safety glasses, a heavy-duty mask and gloves when setting or inspecting cyanide cartridges. When handling, setting or inspecting cyanide cartridges, always carry an antidote kit containing at least 6 pearls of amyl nitrite in case sodium cyanide is swallowed or inhaled. Always work from the upwind side and never have your face directly over a cartridge that is set to fire. Wash hands thoroughly before eating or smoking.

DISPOSAL:

Do not reuse cartridge storage containers. Bury to a depth of 60 cm or burn at high temperature any unusable or spent cyanide cartridges and containers. For information on the disposal of unused, unwanted product and the cleanup of spills contact the regional office of the Pest Management Regulatory Agency, Health Canada.

FIRST AID:

Immediately remove anyone exposed to cyanide from the contaminated area. Have person lie down and keep them warm. Use artificial respiration if breathing has stopped. If swallowed: Start treatment and call a doctor or poison control centre immediately or transport the person to the nearest hospital. Do not induce vomiting unless told to do so by a poison control centre or doctor. Never give anything by mouth to an unconscious person. If in eyes: Hold eye open and rinse with running water for 15-20 minutes, including under the eyelids. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. If on skin or clothing: Take off contaminated clothing. Flush exposed area of skin immediately with plenty of water, then wash with soap and water.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

Patient should breathe the contents of an amyl nitrite pear15-30 seconds each minute if necessary until 5 pearls have been used. The symptoms of cyanide overdose include: weakness, headache, confusion, nausea and vomiting. Higher doses may be followed by gasping for breath, unconsciousness, convulsions, feeble breathing and respiratory arrest and weak or absent pulse. Cyanides attack the heart, circulatory system and central nervous system as well as the liver and kidneys. Acid must not be allowed to come in contact with sodium cyanide, as gaseous hydrogen cyanide (HCN) will be released. The release of HCN gas produces an almond-like odour, however the odour is undetectable at low concentrations by many people.

ENVIRONMENTAL HAZARD:

This pesticide is TOXIC TO WILDLIFE. Keep out of lakes, ponds and streams. Do not contaminate water by cleaning of equipment or disposing of wastes.

Endangered species such as the swift fox (Vulpes velox) inhabit the same ranges as coyotes. Prior to using this product in areas likely to be inhabited by the swift fox (for location see: www.canada.ca/en/environmental-heritage/protected-areas/canadian-prairies/foxes.html), users may consult with the Alberta Fish and Wildlife office in Medicine Hat or Lethbridge for approval.

To allow the natural movements of endangered, threatened, vulnerable or indeterminate status species that may venture outside provincial or national parks or conservation areas, a buffer zone of 400 metres must be strictly obeyed.
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PYROTECHNIC FUMIGANT (gas cartridge)

READ THE LABEL BEFORE USING

GUARANTEE: Sodium Nitrate (65%) Charcoal (35%)
REGISTRATION NO. 22512 PEST CONTROL PRODUCTS ACT
NET CONTENTS: 240 gm pyrotechnic fumigant (gas cartridge, active ingredient carbon monoxide gas (no less than 100 cubic metres)

GOVERNMENT OF THE PROVINCE OF ALBERTA
Department of Agriculture, Food and Rural Development
Animal Industry Division
J.G. O'Donoghue Building
7000 – 113 Street
Edmonton, Alberta
T6H 5T6

DIRECTIONS FOR USE:

NOTICE TO USER:
This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

NATURE OF RESTRICTION:
For storage, use and handling only by persons authorized by the Alberta Agricultural Pests Act.

RESTRICTED USES:

COYOTE

RESTRICTED 240 gm Pyrotechnic Fumigant (gas cartridge) #GR Alberta. Place ignited cartridge in an occupied coyote den.

Use Limitations
1. Registered at the initiative of the Department of Agriculture, Alberta.
2. To control the spread of rabies.
3. For predation control (a) where confirmed livestock predation or harassment has occurred within the past 30 days or (b) about 1 month before expected livestock predation on farms which have suffered chronic predation the previous year.
4. Up to 3 gas cartridges can be used per coyote den.
5. Use only in dens occupied by coyotes.
6. Do not use gas cartridge(s) where surface or ground fire may occur. Do not use near flammable material or inside buildings.

7. With a nail at least 1/8” in diameter, puncture cap at ends of cartridge (s) at points marked. Insert fuse in one hole. Ensure there is a minimum of 3 inches of exposed fuse. The minimum burn time for a three inch fuse is 5 seconds. Ignite gas cartridge(s) on a spade, shovel or in a metal can or nail. Place in den as far as possible after use has been burned and cartridge(s) ignites.

8. Seal all entrances after placing ignited cartridge(s).

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN AND UNAUTHORIZED PERSONNEL

After ignition, cartridge produces the toxic gas, carbon monoxide. Toxic and potentially fatal if inhaled. Use gas cartridges away from fire, heat, direct sunlight, food, feed domestic animals and corrosive chemicals. Use gas cartridge(s) in a manner to minimize non-target poisoning of wild animals, especially other belowground dwelling animals.

Always wear gloves and use a space or shovel when you are igniting or placing ignited gas cartridge(s). Never work or stand directly over breath flames from an ignited gas cartridge. Place the gas cartridge(s) in an occupied coyote den immediately after ignition. Seal all entrances and other locations where gas is seen escaping. Allow gas cartridge(s) to burn and produce carbon monoxide gas for at least 12 hours before re-opening the den entrance. Be alert to coyotes that might be present at the entrance when it is opened. An adult coyote may attack and bite while den entrance is being reopened. It is best to inspect gassing results with the assistance of a firearm

FIRST AID:
If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. If inhaled: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice. If ingested: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:
Carbon monoxide is a slow acting gas, which, in the presence of sodium nitrate has a strong, sulphurous odour. The gas produced by pyrotechnic fumigant cartridges irritates the back of the throat almost immediately and thus is a warning to keep away.

The symptoms of carbon monoxide poisoning include choking, nausea, watery eyes and nose, headache, dizziness, and in severe cases, gasping for air.

Carbon monoxide quickly replaces oxygen in the den. Because hemoglobin in the bloodstream accepts carbon monoxide faster than oxygen, asphyxiation and death results within a short period of time.

STORAGE AND DISPOSAL:
Store gas cartridges away from fire, heat, direct sunlight, food, feed, domestic animals and corrosive chemicals. Do not contaminate water, food or feed by storage or disposal of gas cartridges. Dispose of storage containers. Dispose of unused cartridges in accordance with local requirements. Or, return unused cartridges and fuses to issuing officer.
Alberta

PADIS
Poison & Drug Information Service
www.padis.ca

Toll-Free: 1-800-332-1414
Calgary: (403) 944-1414

Foothills Medical Centre
1403 29th Street NW
Calgary, AB T2N 2T9
WARNING

DANGER

DEADLY POISON or OTHER DEVICES have been set on this property to destroy pests and nuisances in interest of protecting LIVESTOCK.

KEEP CHILDREN, DOGS, AND OTHER DOMESTIC ANIMALS AWAY FROM THESE DEVICES.

Tampering with, or the removal of these baits or devices is unlawful.

AGRICULTURE AND FORESTRY REQUESTS YOUR CO-OPERATION IN THIS EFFORT TO PREVENT LIVESTOCK PREDATION.

Alberta Agriculture and Forestry