MICHIGAN VENISON

How to field dress, butcher, prepare/cook/preserve
Venison that is handled and cooked safely is a healthful addition to our Michigan food supply.

To be safe, venison from wild game should be cooked to 165 degrees F


Glenn Dudderar, Extension specialist and professor (retired), Department of Fisheries and Wildlife

Alden Booren, Extension specialist and professor emeritus, Department of Food Science and Human Nutrition

Sandra Andrews, department head, Physical Science, Grand Rapids Community College

Reviewed by:

Carol Wruble, Extension specialist (retired), Michigan State University, 2001.

Jeannine Schweihofe, Extension educator, Michigan State University, 2016.

Jason Hofman, Academic meats specialist, Departments of Food Science and Human Nutrition and Animal Science, Michigan State University, 2016.

Note: This bulletin contains material adapted from Michigan Extension bulletin “Venison, Upper Peninsula Style” and University of Wyoming Agricultural Extension Service bulletin “You and Your Wild Game.”
“Michigan Venison” describes proper methods to harvest, dress and cut venison. It recommends proper cooking techniques for the cuts and provides recipes for cooking and sausage making.

The process of putting tender, good-tasting venison on the supper table begins with making a quick, clean kill.

## Making A Quick, Clean Kill

**Never shoot at a running deer. Why?**

- Because it is impossible to know what is behind a running deer as you try to aim at the deer as it runs. While you’re concentrating on aiming at the deer, it may pass in front of a house, livestock or another person just as you pull the trigger or release an arrow.

- Because it is very likely that you’ll only wound the deer, thus allowing it to escape and causing it to suffer unnecessarily and perhaps die days later.

- Because, even if you recover a wounded deer, there is a good chance that the shot will have punctured the stomach, bowel or bladder, thus contaminating the meat and unfortunately starting the process of producing the gamey flavor that so many people associate with venison.

Shoot only at standing or slowly walking deer. Aim at a point midway between the top of the back and the bottom of the chest slightly behind the front leg (Fig. 1). If you hit this spot or anywhere within 5 inches of this spot, you will hit a vital organ and the deer will bleed profusely and die quickly. A shot that is high or low of the aiming point will strike the heart, the aorta (a main blood vessel) or the spine. A shot forward of the spot will strike lungs and/or aorta, and a shot that is no more than 5 inches behind the aiming point will hit both lungs.

As soon as you have shot, go immediately to where you saw the deer fall. If you didn’t see the animal fall, go immediately to the place the deer was standing when you shot. This improves your chances of finding the deer or finding evidence that you hit the deer (hair, blood or tissue), and it allows you to trail the deer to where it has fallen while the evidence is still fresh and visible. Do not wait for the deer to “settle down” after you have shot. A wounded deer being
trailed by a hunter will bleed more profusely, leave more evidence to trail and die more quickly than a deer that is allowed to settle down, have blood clot in the wound and recover from the shock of being wounded. In addition, venison that has been well bled and then properly field dressed, stored and butchered after the kill will not have an objectionable gamey flavor.

Once you have found the deer that you shot, approach the animal carefully and be ready to shoot again, if necessary. Look for signs of life, especially eye movement. If there are no signs of life, touch the eye with the tip of the gun muzzle, an arrow or a long stick. If there is any eye response, the animal is still alive and should be shot again through the heart. The heart is located immedia-
ately behind the joint of the front leg and the chest, close to the rib cage (Fig. 1). Do not attempt to bleed a wounded deer. Inserting a knife into a live deer can be dangerous and will accomplish little more than shooting the deer the second time as recommended. If the deer is dead, there is no point in inserting a knife into the deer because once the heart has stopped pumping, severing additional arteries and veins will cause little additional blood loss.

Once the deer is dead, correctly mark the appropriate deer tag and attach it to the deer as required by law.

Field Dressing

Now that you have made a quick, clean and humane kill, it is important to clean and cool the venison as quickly as possible. To do this, you will need four items: at least one length of rope 10 to 15 feet long, a knife with a blade no wider than 1 inch and at least 4 inches long, a wad of brown paper towels and, if you wish to save the heart and liver, two plastic bags. (Paper towels should not be white because of the potential danger of showing anything white in the woods during deer hunting season.) Here’s an easy way to field dress a deer:

1. Lay the deer on its side. Attach one end of the rope to one hind leg and the other end of the rope to a nearby bush or tree so that the rope holds the leg in the air and exposes the belly of the deer for easy access. If you wish, tie the front leg up as well.

2. If the deer is a buck, grasp the male reproductive organs and cut the skin between the reproductive organs and the belly. (Fig. 2) Do not cut the belly muscles yet. Once the initial cut is made, cut the skin from the inside and pull the reproductive organs away from the body of the deer. The urinary and reproductive tubes run deep between the legs and should be carefully removed by cutting the tissue covering them and pulling them free of the body. Continue this procedure all the way around to the anal vent.

Remove the scrotum and all hide from the penis. Use a short piece of cord to tie off the bowel and the urine tube. If the deer is a female, begin with the next step.

3. Insert the knife blade between the anal vent and the hip bone. Cut around the anus
and the reproductive tubes, keeping the point and edge of the knife against the bone of the hip opening. Be careful not to puncture the bowel or urinary tubes, but insert the knife as deeply as possible to sever all the connective tissue between the bone of the hip opening and the bowel and urinary and reproductive tubes. Tie off the bowel and urine tube with a short piece of cord.

4 Use your knife to make a very small cut in the hide of the belly and pull the hide apart to expose the muscles of the belly wall (Fig. 3). Slowly and carefully slice through the muscle, being careful not to cut the intestines, which lie just inside the thin muscle wall. After you have made the initial cut, one way to avoid puncturing the bowels is to hold the blade between your index and middle so

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**Figure 2.** Diagram of where to cut around male and female reproductive organs during field dressing.
the point is not exposed (Fig. 3). Insert the knife into the initial cut, sharp edge to the outside, and then cut the belly wall open from the inside toward the chest cavity and back toward the joint of the hind legs. Once the belly muscle is completely cut open from the joint of the hind legs to the rib cage, insert the knife into the chest cavity and open the chest cavity by cutting the gristle between the ribs and the breast bone. If you do not wish to have the head of the deer mounted, cut the chest cavity open all the way up to the throat and then cut the hide and the muscles of the throat, exposing the wind pipe and the food pipe all the way up to the deer’s chin. If you plan to have the head of the deer mounted, stop cutting open the chest cavity at the point where the front legs join the chest.
5 Now that the body cavity of the deer is open, reach into the cavity and grasp the bowel, reproductive tubes and bladder where they enter the opening of the hip and pull gently. The bowel, bladder and reproductive tubes will slide easily through the hip opening and out through the opening in the belly if you cut them free from the hip when you cut around the anus and reproductive tubes. If they do not pull easily through the hip opening, then you will have to go back (step 3) to the anal vent and cut whatever connective tissue is holding the bowel and reproductive tubes to the hip. Once this is done, then you can again reach into the body cavity, grasp the bowel, bladder and reproductive tubes, and pull them out through the opening in the belly. Continue to pull all of the reproductive tubes, intestines and the bottom of the stomach out of the opening in the belly and roll them onto the ground (Fig. 3). As you roll the innards onto the ground, it may be necessary to cut some tissue holding them against the inside of the back. As these innards roll out on the ground, you will see a large, thin muscle separating these innards and the chest cavity containing the heart and lungs (Figs. 4 and 5).

Figure 4. Diagram of internal organs and diaphragm muscle separating heart and lungs of female deer.
This muscle is called the diaphragm. Cut it where it joins the ribs and backbone, being careful not to puncture the top of the stomach where it joins the diaphragm. Once this is accomplished, all the deer innards can be rolled out onto the ground. As the stomach rolls completely free of the deer, you may wish to cut the large purple-pink organ, the liver, free from the stomach and place it in a plastic bag for later processing. As you pull the heart and lungs free of the chest cavity, you may wish to cut the heart free and place it also in a plastic bag for further processing. If you plan to have the deer mounted, insert your knife as far up into the chest cavity as you can reach and cut as much of the heart, lung and blood vessel tissue free as you possibly can. If you do not plan to have the deer mounted, continue to pull the food and air tubes free from the throat all the way to the chin and cut them off at the chin.

If you have done a good job so far, then all of the organs of the deer will have been completely and cleanly removed from the body cavity. At this point, you may wish to take a few of the brown paper towels and wipe the blood from your hands. If you have blood up to your elbows or beyond, you probably didn’t do the job properly.
Use additional paper toweling to wipe all the blood from the body cavity of the deer. Be as thorough as possible, keeping in mind that bacteria will grow very well in blood, and bacteria cause meat to spoil and possibly become unsafe. Do not use leaves or soiled cloth to clean the blood from the body cavity — such items are loaded with spoilage bacteria.

Now that you have completed field dressing the deer, bury the paper towels or place them in the plastic bags in which you brought them to be carried out and disposed of later. Untie the deer legs and get ready whatever method you have decided to use to drag the deer back to your home, campsite or automobile.

If at all possible, avoid dragging the deer through water, mud or dust in such a way that the inside of the body cavity is contaminated with water, mud or dust. When you put the carcass in your vehicle, wrap it so that dust, dirt or dirty water from your vehicle or from the road does not contaminate the body cavity.

**Hanging Your Deer**

As soon as you get your deer to campsite or home, hang the deer to allow the venison to cool quickly and completely. If you did not thoroughly clean the inside of the body cavity when you field dressed the deer, do so as soon as you get the deer hung up. Soak a clean cloth in a saltwater solution (1/2 cup salt in 1 gallon water), wring it dry and wipe the inside of the cavity of the deer with this damp cloth. If the inside of the body cavity has been contaminated by the contents of bladder, bowel, intestine or stomach or with unclean water, mud or dirt, thoroughly rinse out the body cavity with water.

When the cavity is clean, thoroughly dry the inside with cloth or paper toweling.

Deer can be hung from the antlers, the neck or the hind legs. Research has shown that it makes absolutely no difference in venison quality whether you hang the deer by its hind legs or its head. If you wish to have the deer mounted, however, hanging it by its hind legs avoids rope damage to the hide on the neck, head, ears, etc. It is also much easier to butcher the deer and save the head and cape for mounting if you hang it by the hind legs.
To hang a deer by its hind legs, slice the hide between the leg bone and the large tendon on the back of each leg and insert a sturdy branch, board, wooden dowel or metal rod as a cross-bar through these openings. If you wish, notch the branch, board or dowel or bend the ends of the metal rod up to ensure that the deer does not slip. Attach a rope to the middle of the cross-bar to hang the deer as desired.

The major reason for hanging a deer carcass is to allow the meat to cool further and to make the subsequent butchering process easier. If done properly, hanging may also help tenderize the meat, if that is necessary. Because the majority of deer in Michigan are less than 2 1/2 years old when killed by hunters, there is absolutely no reason to allow most deer to hang for more than one day. If, however, you have your deer aged by a DNR biologist and you’re told that it is 2 1/2 years old or older, you may wish to allow the deer to hang for more than one day.

Aging meat means holding it at 32 to 38 degrees F for as long as 10 days to allow natural enzymes to tenderize the meat. Aging is a time and temperature relationship — as the temperature is raised, the aging process occurs faster. Any temperature above 40 degrees F not only ages the meat faster but, because of the potential presence of pathogens, may lead to spoilage. Therefore AGING ABOVE 40 DEGREES F IS NOT RECOMMENDED.

If you hang your deer for one to three days, or if it is simply not possible or convenient for you to process your deer or have it processed for several days after the deer is killed, then it is vitally important that the deer be hung properly. If a deer hangs for more than one day, the body cavity should be thoroughly cleaned as previously described, and the meat must be maintained at a temperature below 40 degrees F, preferably between 35 and 37 degrees. If the temperature of the meat exceeds 40 degrees F, then it should be taken immediately to a commercial meat cooler or be processed and frozen.

The deer may be hung with the hide on or the hide off. When the deer is hung with the hide off, the meat tends to dry out and discolor. This makes cooking more difficult, and the outer edge of the meat develops a dry, hard crust that must be trimmed before freezing or cooking. Leaving the hide on protects the meat, but it also makes skinning more difficult. One good reason for skinning and processing your deer as soon as the meat is chilled is that it is easier to skin and process it then rather than later.
If the inside of the body cavity of the deer is contaminated with stomach or bowel contents and the deer is allowed to hang for several days, the venison will most assuredly have a gamey flavor and begin to spoil.

Hanging the carcass for more than one day during which the meat temperature exceeds 40 degrees F will also cause an objectionable gamey flavor or spoilage, even if the carcass is thoroughly cleaned.

It is not necessary to remove the glands on the deer’s legs before butchering it, but if you prefer to do so, thoroughly clean the knife you used to cut off the glands or use a different knife for cutting the meat.

Any knife used to cut off the glands will surely be contaminated with the substances contained in these glands.

### Skinning, Butchering and Cutting the Deer Carcass

Once the deer is hung, two pieces of meat should be removed immediately, cleaned thoroughly, chilled, and eaten or frozen. These are the tenderloins (can be sliced to filets mignons), the two large muscles on the inside of the body cavity that run along the backbone to the hipbone. If the deer has been properly shot and field dressed, these two pieces of meat from any deer are tender, good tasting and excellent eating. Remove them carefully to avoid ripping them and to be sure that you get all of the meat. If, however, the deer has been gut shot or improperly field dressed, these two pieces of meat can be heavily contaminated and require extensive trimming and/or may have to be discarded. Once they’re free from the carcass, wipe these pieces of meat free of blood, wash them thoroughly if there is any chance that they have been contaminated, and then chill, cook and eat them; place them in the refrigerator so that they can be cooked in the next 24 hours; or wrap and freeze them.

If you have hung the deer by the hind legs, begin the skinning process by inserting your knife under the hide of the deer on the inside of the middle of the hind leg and cut upward toward the end of the leg. When you reach the point on the leg where the leg is suspended from the cross-bar, cut the hide around the leg, being careful not to cut the large tendon that is holding the carcass up. Then...
grasp a loose edge of the hide and pull downward, pulling the hide free from the hind leg.

As you pull the hide free toward the tail, cut the tail off by placing the blade of the knife at the base of the underside of the tail and slicing into the cartilage connecting the tailbone to the backbone. Once the tail is cut free, grasp the hide on the hair side and pull outward and downward, pushing on the skin side of the hide with the opposite hand if necessary to assist in separating the hide from the carcass.

Continue this process all the way down to the front legs, then cut toward the front leg and then down the middle of each leg. Pull the hide free from each leg. If you are not going to mount the deer, cut the hide from the inside from the top of the chest to the chin (if you have not already done so when you field dressed the deer). Continue pulling the hide free of the deer all the way down to the base of the skull. If you’re going to mount the deer, cut the hide on the chest to the front legs, then cut toward the back of the front leg and down the back of the front legs. Pull the hide free from each leg and carefully continue to pull all of the hide free down to the base of the neck. Cut the neck off from the chest and take the hide, neck and head to a taxidermist.

If you are not going to mount the head, you may wish to remove the head and hide from the carcass at this point. Do so by pulling the hide completely free from where the neck joins the head. Rotate the head as much as possible to help you identify this joint. Once you have done so, insert the knife into the joint and cut from side to side to sever the head and hide from the carcass. If you have hung the deer by the head and wish to mount the head, it is very difficult to skin the deer and remove the shoulder and neck meat. If you have hung the deer by the head and do not want to mount it, then cut the hide from the inside around the neck and down the throat to the chest if you have not already done so. Pull downward on the hide to the shoulders, and follow the skinning procedure just described, but in the reverse order. Do not cut off the head. Once the hide is removed, inspect the carcass and remove as much hair as possible and any foreign matter. One quick way to remove hair is to singe it with a propane torch.

The second piece of meat to be removed from the carcass is the loin (Fig. 6). To remove the loin, insert the knife into the carcass along the edge of the backbone and cut alongside the backbone (midline) from the hip to the shoulder, keeping the knife against the edge of the backbone. Cut the loin off at the hip.
and shoulder and roll these muscles outward away from the spine, using your knife to cut the meat free from the backbone and the rib cage. When both pieces of meat have been cut free from the back, trim off the connective tissue. The outer white connective tissue, or fell, is the white material that is difficult to grind and chew. It also gives venison a gamey odor and taste. Separate the connective tissue (the white tissues) from the meat (the red tissue) and dispose of the connective tissue.
Any equipment used in butchering and cutting up the deer – knives, cleavers, hatchets, cutting boards, etc. – should be sanitized before use and anytime during use that they become contaminated with blood, other body fluids, hair or foreign material (dirt, leaves, etc.). To sanitize these items, mix 1 part liquid chlorine household bleach with 9 parts tepid water. Wipe off as much of the contaminating material as possible. Then soak tools for 2 to 3 minutes. Use the solution to scrub cutting surfaces. Rinse tools and surfaces and allow to air dry.

The loin can then be cut crosswise into steaks, butterfly steaks or 1/4-inch-thick medallions for stir-frying. To cut butterfly steaks, cut the loin into approximately 2-inch-thick pieces, then split each piece from the surface or outside of the muscle to the rib side. Cut almost in half and fold open to make a butterfly. Loin steaks and medallions are always tender and good tasting. If you want to make chops, the backbone must be sawed in half and cut crosswise into chops. (Because this requires a cleaver and/or a saw, it is not described in this publication.)

Next cut the shoulder from the carcass (Fig. 6). Simply hold the front leg away from the rib cage and cut the muscle holding the shoulder to the rib cage all the way up to and including the meat on the backbone. Place the shoulder and leg on a cutting board and cut the meat away from the lower leg (the shank) in any manner you choose. Trim all the connective tissue (the white material) off the meat you remove from the shank and set the meat aside to be ground into burger later or cut up into smaller pieces for stew meat or soup meat. If you plan to grind all of the shoulder meat into burger or cut it into small pieces for stew and soup meat, then simply cut the meat of the shoulder free from the front of the foreleg and shoulder.

Once the meat is free of the bone, remove all connective tissue and set the meat aside to be cut up into smaller pieces or ground. If you wish to make a shoulder roast, start by laying the shoulder down on the cutting board with the outside of the shoulder facing upward. The outside of the shoulder blade has a bony ridge in the middle. To debone the meat, cut down both sides of the bony ridge on the top of the shoulder blade and, keeping the edge of the knife against the shoulder blade, cut outward, separating the bone from the meat. Then carefully sepa-
rate the meat from the edges of the shoulder blade. Then cut the meat on the underside of the shoulder blade away from the bone of the shoulder blade, keeping the knife edge against the bone. Continue removing the meat down along the foreleg of the deer, being careful not to cut the meat of the shoulder blade that joins the meat of the foreleg. Once the bone has been removed from the meat of the foreleg, the meat of the foreleg can be folded up into the meat of the shoulder and then all that meat rolled and tied with a string into a roast.

The next cuts of meat on the deer are easily butchered.

**Neck meat**: In most cases, the neck meat is best ground into burger, so simply cut the meat from the neckbone any way you choose. If you wish to make a neck roast, cut the meat all the way around the neck at the head and the chest. Cut the neck open from head to chest on the bottom of the neck and cut around the neckbone, keeping the neck meat in one piece. Go all the way around the neck, cutting around its bony projections, to remove the neck meat from the neck bone. Remove as much of the white connective tissue as possible, roll the meat on itself and tie with string for a roast. A neck roast from a large, old deer may not be tender.

**Flank meat**: Cut the flank meat away from the sides of the deer (Fig. 6). You may choose simply to discard it, because these muscles are easily contaminated with dirt/bacteria and are the first to dry out. Or you can separate the meat from the layers of fat and connective tissue and set it aside to be ground into burger.

**Ribs**: If you wish, use a heavy knife, a small hatchet or a saw to cut the ribs from the backbone and then into approximately 4- to 6-inch squares for spareribs (Fig. 6).

**Hindquarters**: To separate the hindquarters (the round) from the remaining carcass, locate the hipbone on the back of the deer, insert your knife into the meat along the edge of the hipbone and cut all along the hipbone, keeping the edge of the knife against the bone of the hip (Fig. 6). Then locate the hipbone on the inside of the hip, insert the knife along the edge of the hipbone and begin to cut along the hipbone, keeping the edge of the knife against the bone. As you separate the meat from the bone, the ball and socket joint of the hip will become visible. Insert the knife into the socket joint and sever the ligaments connecting the ball to the socket. This separates the leg from the hip. Some additional cutting of meat may be necessary to completely separate the leg. Lay the leg down on the cutting board
and cut the meat of the lower hind leg (the shank) away from the bone. Handle this shank meat exactly the same as the lower foreleg (the front shank).

Note that part of the meat on the upper hind leg extends beyond the end of the bone (the ball). This is the rump (Fig. 7). Cut it off just below the ball. It makes an excellent roast or can be cut into cubes for soup, stew or grilling.

Note also that the meat on the upper hind leg (the round) is divided into three main muscles (Fig. 7). The muscle on the top or front of the bone is almost round, and the two muscles on the side are almost rectangular. Locate a seam between two of the muscles and separate them by cutting the connective tissue that holds them together. Do not slice through the meat. When you have cut the connective tissue in the seam down to the bone, cut all of this meat.

Figure 7. Diagram of hind leg and major hind leg muscles.
away from the bone, keeping the edge of the knife against the bone. Remove the bone and then separate the three muscle groups from one another by cutting the connective tissue along the seams. Start with the half-round-shaped piece (the sirloin tip) that came from the top or front of the leg bone (Fig. 7). Trim the tips from both ends of this piece of meat. These tips can be used for cubes, stew meat, soup meat or burger. The remaining piece of meat can be tied with string into a roast or can be cut crosswise into 1-inch steaks. These steaks will be less tender than any other steaks that you can cut from the deer. On a small, young deer, however, these steaks will be tender. Take the two remaining pieces of meat (the inside and outside rounds) and trim both ends (Fig. 7). The trimmings are suitable for cubes, stew or soup meat, or ground meat. The trimmed piece can then be cut crosswise into 1-inch round steaks, which will be almost as tender as the loin steaks. These pieces of meat can also be left whole for roasting, cut into thin medallions for stir-frying, or cut into cubes for venison kabobs. Once again, remove all fat and the white connective tissue from these steaks, preferably before freezing but definitely before cooking.

When all the meat has been removed from the carcass, inspect all pieces of meat again, remove any white connective tissue that you did not remove previously, and remove all foreign matter, especially hair. Cut away and discard any meat that has been bruised by bullet, shot or arrow. It is far better to cut away more meat than necessary than to leave bruised meat. Bruised meat will have a strong, gamey flavor. The venison can then be wrapped in white freezer paper, shiny side in, and taped closed. Label each package with the cut of meat and the date. Then place the meat in a freezer kept at approximately 0 degrees F. Spread the meat out over the inside of the freezer as evenly as possible so it freezes solid within 24 hours. Avoid stacking a large amount of fresh meat in one place in the freezer — the middle layers may take days to freeze solid. After the meat is solidly frozen, you can stack it as you desire.

The pieces of meat that are to be ground into burger can be ground at home or placed in the refrigerator and taken as soon as possible to a business that will grind it for you. There are many ways to grind venison into burger, but the following suggestions produce excellent ground meat. If you plan to use the ground meat in burgers, it is best to grind the venison with an additional 5 to 10 percent (by weight) beef fat (suet) or grind it with 30 percent.
(by weight) lean pork shoulder. The resulting venison burgers will be as good as or better than any beef burgers you have eaten. If you plan to use the ground venison in dishes such as sloppy joes or chili, or with commercial mixes such as Hamburger Helper, you may wish to grind your venison without any additional fat or other meat.

Package the ground venison in quantities you find convenient to use, such as 1/2 pound, 1 pound, 2 pounds, etc. If you package it yourself, wrap in freezer paper, shiny side in, tape closed, and label with the date and the kind of ground venison. A business that grinds the meat for you may be willing to package it as you direct.

If you are grinding the venison yourself, partially freeze it before you grind it for best results.

Quick Review

Venison is a good-tasting, tender meat, but it is often made less tasty or even gamey by the following practices:

• Contaminating the meat with the contents of bowels, bladder or stomach, dirt or dirty water.
• Hanging the carcass when the meat will reach temperatures above 40 degrees F.
• Not cleaning or trimming and disposing of contaminated meat.
• Leaving fat and connective tissue (the white material) on the meat (the red material).

As with all food preparation, it is important to handle and cook venison safely. Venison food safety practices are the same as those for other foods.*

• Clean hands, cooking utensils and surfaces often.
• Separate: don’t cross-contaminate.
• Cook to proper temperature.
• Chill by refrigerating promptly.

* Fight BAC campaign from the U.S. Department of Agriculture and the U.S. Food and Drug Administration.
How to Use Cuts of Venison

**Hind and fore shanks** — bone out and cut into cubes for stew meat or grind for meatloaf or venison burgers.

**Round** — is usually cut into steaks and prepared according to one of the recipes that follow (dry heat cookery). It can also be made into Swiss steaks.

**Legs** — a small, tender leg can be roasted whole just like a leg of lamb. The meat can also be ground or made into kabob or stew meat, or cured and smoked.

**Loin and rib chops** — the loin is the source of the sirloin and porterhouse steaks, generally called chops. The loin and rib steaks are the best for dry heat cooking — frying, broiling, roasting, grilling. These cuts also make extra choice roasts.

**Shoulders** — this is another source of pot roasts (moist heat cookery). Cut to whatever size roasts you want. The shoulder can also be corned or boned out for stew or ground meat.

**Rump** — this is also used for pot roast (moist heat cookery). It is also good corned, or it can be boned out and used like the shoulder.

**Neck** — best used for pot roasts, stew meat or ground meat. The irregularity of the neckbone makes boning difficult, but with a little care it can be done.

**Flank and breast** — the flank and breast contain a lot of meat that is best used for soup, stews or ground meat.

How to Cook Venison

Venison is one of the most highly prized game meats. As mentioned earlier, most of the objectionable or gamey flavor comes from careless handling of the deer after it has been shot.

Some of the gamey flavor is in the fat, so trim away as much of the fat as possible. Another reason for careful trimming is that venison fat, as it cools, tends to be sticky or tallowy, and it clings to the teeth and the roof of the mouth.
Because venison is a dry meat, only certain cuts (tenderloin, round, and loin steaks or chops) can be cooked using dry heat methods (broiling, frying, roasting, grilling). All other cuts must be cooked using moist heat (pot roasting, stewing, soup). Adding beef suet, butter, pork fat or bacon prevents venison from becoming dry and chewy. This will, however, also increase the total fat, calorie and cholesterol content of the food. Venison without added fat is relatively low in fat, saturated fat and cholesterol. A 3-ounce serving of roasted venison has 131 calories, 2.7 grams total fat, 1.1 grams of saturated fat and 95 milligrams of cholesterol. This means that 19 percent of its calories are from fat and 7 percent from saturated fat. That makes venison slightly lower in total calories than roasted beef, roasted chicken breast (meat only) and roasted pork tenderloin, and much lower in percentage of calories from fat than either beef or pork. Only chicken is lower in percentage of calories from saturated fat. All the other meats mentioned, however, are lower in cholesterol than venison. (See Table 1 below.)

When mixing venison with other meat for storage, using suet instead of pork will prolong the storage life of the venison. The suet doesn’t become rancid as quickly as the pork fat.

Table 1. Nutrient composition of meat and poultry, including venison.

<table>
<thead>
<tr>
<th>meat or poultry</th>
<th>calories</th>
<th>total fat</th>
<th>% cal. total fat</th>
<th>Saturated fat</th>
<th>% cal. sat. fat</th>
<th>chol.</th>
</tr>
</thead>
<tbody>
<tr>
<td>venison*, roasted</td>
<td>131</td>
<td>2.7 g.</td>
<td>19%</td>
<td>1.1 g.</td>
<td>7.3%</td>
<td>95 mg.</td>
</tr>
<tr>
<td>beef, roasted eye of round trimmed to 0” fat</td>
<td>149</td>
<td>4.8 g.</td>
<td>29%</td>
<td>1.8 g.</td>
<td>11%</td>
<td>59 mg.</td>
</tr>
<tr>
<td>chicken, roasted breast, meat only</td>
<td>140</td>
<td>3.0 g.</td>
<td>19%</td>
<td>.9 g.</td>
<td>5.8%</td>
<td>72 mg.</td>
</tr>
<tr>
<td>pork, roasted tenderloin</td>
<td>133</td>
<td>4.1 g.</td>
<td>28%</td>
<td>1.4 g.</td>
<td>9.5%</td>
<td>67 mg.</td>
</tr>
</tbody>
</table>


*Note: Handbook 8, vol. 17, has only one venison entry. There may be leaner cuts of venison available, but no other authoritative reference has more complete nutrient information regarding specific venison cuts.
Quick, Simple and Easy Venison Recipes

Eleanora Dudderar, Glenn’s wife, likes these recipes because they are quick and easy — especially if Glenn uses them.

Broiled Venison Steak
Choose only the most tender of the steaks — the tenderloin, the loin or the round steaks — and place them on a broiling platter or pan coated with cooking spray or oil. Baste the steaks with olive oil, butter, margarine or lemon juice, according to your taste and dietary needs. As an alternative, cover the steaks with a strip of bacon. Place the broiling platter or pan on a middle oven rack and broil for approximately 5 to 7 minutes per side. When you turn the steaks, be sure to baste the second side as directed or cover with the strip of bacon. If the steaks are 1 inch thick, broiling for approximately 5 to 7 minutes per side will cook the steaks to medium rare or medium. Adjust the cooking times as necessary or according to your taste, but avoid cooking to well done. Venison cooked beyond medium well is usually dry and chewy.

Barbecued Spareribs
Boil venison spareribs for at least 20 minutes to remove as much of the fat between the layers of meat as possible. Then coat the spareribs with a barbecue sauce of your choice and barbecue over a grill to the desired degree of doneness. Serve while hot.

Venison Burgers
Grind your venison with 30 percent lean pork shoulder or with 5 to 10 percent beef fat. Pat the ground venison into burgers exactly as you would ground beef. Broil on a broiler platter or pan on a middle oven rack. Cook until meat reaches 165 degrees F. Do not cook to well done or very well done.

Venison Liver
Inspect the liver for any discoloration, and trim away any contamination from dirt or debris. A healthy liver is purple-pink. Liver with off-colored (yellow, gray or white) spots should be discarded. After inspecting the liver, cut away all fatty tissue and any connective tissue, and cut out the large blood vessels and ducts that run through the liver.

As you remove the blood vessels and ducts from the liver, you may en-
counter large, white flatworms called flukes. If you do a thorough job of removing the ducts and vessels, you most likely will remove all of the flukes. These flukes pose no hazard to human beings, especially if the liver is cooked properly. If you find the presence of flukes totally unacceptable, simply discard the liver.

Then slice the liver into pieces no thicker than 1/2 inch, preferably about 1/4 inch. Season to taste with salt, pepper and flour, and fry the slices in a skillet with melted margarine or butter and sliced onions. Cook thoroughly to 165 degrees F but do not overcook. Venison liver is best when it’s cooked while fresh. It makes an excellent evening meal in deer camp.

**Venison Pot Roast**

You can make a roast by rolling shoulder or neck meat into a cylinder and tying it with string. Before you roll it, season the side of the meat that will be on the inside of the roll with the seasonings of your choice. Many of the dried instant soup mixes are excellent for this purpose, especially the vegetable soup mixes. Large rolled roasts from the neck and shoulder can be tied and cut into smaller roasts of desired size. Coat the meat with a mixture of salt, pepper and flour, and brown all sides in your choice of cooking oil. If you are going to cook the venison in a pressure cooker, which is highly recommended, place the cooking rack in the pressure cooker and add water as recommended for your cooker (usually 1 to 2 cups).

A 1-pound venison roast will usually cook in 10 to 15 minutes at 10 pounds pressure, so you may wish to add fresh vegetables of your choice at this time. Most fresh vegetables, if cut into large pieces, will cook in approximately the same time. If you wish to use frozen vegetables instead, cook the roast at pressure for 10 to 12 minutes, then remove the cooker from heat until the pressure is completely gone, add the desired frozen vegetables, return the cooker to the heat, bring the pressure up to 10 pounds pressure and cook for approximately 2 additional minutes. Most frozen vegetables require approximately 2 minutes of pressure to cook thoroughly. If you’re using a roasting pot, cover and cook the meat over low heat for 1 to 2 hours until tender or until the internal temperature is at least 165 degrees F. Then add fresh vegetables and cook until the vegetables are done.

**Venison Heart**

Slice the heart open and remove all blood vessels and all the tough tissue lining the inside of the heart. Slice the heart crosswise into pieces 1/4 inch thick. Season to taste and fry in olive oil, melted butter or margarine, and sliced onions. Do not overcook or the meat will become tough.
Venison Kabobs
Cut rump meat or the trimmings from steak meat into approximately 1- to 2-inch cubes. Soak the cubes in a commercial marinade according to label directions. To cook, skewer the meat cubes and, if you desire, coat with a barbecue sauce of your choosing and grill until the meat is cooked to the desired doneness. If you’re cooking on an open barbecue grill, wait until the coals are completely white, then grill the cubes approximately 10 to 15 minutes on one side. Continue turning and grilling until the other sides are done. If you do not wish to use barbecue sauce, lower the grill as close as possible to the coals, sear the cubes quickly on all six sides, and then cook for approximately 5 to 10 minutes, turn and cook for another 5 to 10 minutes for medium to medium rare cubes and until the internal temperature is 165 degrees F.

Food Safety
Whenever preparing food, it is important to follow these four steps to keep your food safe from harmful bacteria.

• **Clean:** Wash hands and surfaces often. Bacteria can spread throughout the kitchen and get onto cutting boards, utensils, sponges and countertops.

• **Separate:** Don’t cross-contaminate. Cross-contamination is the scientific word for the spread of bacteria from one food product to another. When handling raw meat, keep these foods and their juices away from ready-to-eat foods. When possible, use separate cutting boards and knives for raw and cooked foods. If separate items are not available, thoroughly wash cutting boards and utensils with soap and water between uses.

• **Cook:** Cook to proper temperatures. Food safety experts agree that foods are properly cooked when they are heated for a long enough time and at a high enough temperature to kill the harmful bacteria that cause food-borne illness. To be safe, venison should be cooked to 165 degrees F.

• **Chill:** Refrigerate promptly. Refrigerate foods quickly because cold temperatures keep harmful bacteria from growing and multiplying. Set your refrigerator no higher than 40 degrees F and the freezer unit at 0 degrees F. Check these temperatures occasionally with an appliance thermometer.

(Adapted from the Fight BAC campaign from the U.S. Department of Agriculture and the U.S. Food and Drug Administration.)
Recipes

The following Michigan venison recipes have been modified to reduce fat and sodium content. Some have been used for years by loggers and backwoods-men. Others are quite new. All of them are worth trying.

BARBECUED VENISON BURGERS

If you happen to get a deer that has a very strong wild flavor, here is one way to prepare the meat to make it delicious. It’s so good on toasted buns and easy to make for a crowd.

Temp: 400 degrees F to brown, 250 degrees F to finish.  
Time: About 20 minutes to brown, 1/2 hour to finish.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Tbsp. fat, oil or drippings</td>
<td>2 Tbsp. salt (optional)</td>
</tr>
<tr>
<td>2 pounds ground venison</td>
<td>1/4 tsp. pepper</td>
</tr>
<tr>
<td>1 cup onion, chopped</td>
<td>2 Tbsp. Worcestershire sauce</td>
</tr>
<tr>
<td>1 cup celery, finely diced</td>
<td>1/4 cup vinegar</td>
</tr>
<tr>
<td>1/2 large green pepper, chopped fine</td>
<td>1 Tbsp. brown sugar</td>
</tr>
<tr>
<td>1 clove garlic, minced (optional)</td>
<td>2 tsp. dry mustard</td>
</tr>
<tr>
<td>1/2 cup chili sauce</td>
<td>1 tsp. paprika</td>
</tr>
<tr>
<td>1/2 cup catsup</td>
<td>2 tsp. chili powder</td>
</tr>
<tr>
<td>1 3/4 cups water</td>
<td>2 Tbsp. chopped parsley</td>
</tr>
</tbody>
</table>

Preheat frying pan. Add fat, oil or drippings and melt. When hot, add meat, onions and celery. Brown, stirring frequently until venison reaches 165 degrees F. Spoon off excess fat. Combine remaining ingredients, except parsley. Mix well and pour over meat. Cover pan and simmer 30 minutes, stirring occasionally. Add parsley. Serve between hot buns or over mashed potatoes, rice or noodles. Serves 8 to 10.
If you have some venison roast left over, try one of the following two recipes:

**BARBECUED VENISON NO. 1**

1 bottle (28 ounces) prepared barbecue sauce  
1 small onion, chopped
1 cup catsup  
2 stalks celery, chopped
2 Tbsp. pickle relish  
2 pounds cooked rump roast of venison
1 cup beef broth or pan juices from venison roast

Mix all ingredients except venison in large saucepan. Cook over low heat for about 30 minutes or until sauce is thick. Slice rump roast into the bubbling sauce and simmer until meat is heated to 165 degrees F. Serve on hard rolls crisped in oven. Makes 10 hearty sandwiches.


**BARBECUED VENISON NO. 2**

2 onions, chopped  
1 cup water
3 Tbsp. vegetable oil  
1/2 cup vinegar
2 Tbsp. sugar  
2 Tbsp. Worcestershire sauce
2 tsp. dry mustard  
2 drops Tabasco sauce (optional)
2 tsp. paprika  
Sliced cooked venison

Brown onions in oil. Add remaining ingredients except venison. Arrange meat in casserole dish. Pour sauce over meat. Bake at 375 degrees F for 20 minutes or until sauce thickens and the temperature of the meat is at least 165 degrees F.
VENISON AND CORN CASSEROLE

1 pound ground venison 1 clove garlic, minced
4 celery stalks, diced Dash pepper
2 medium onions, chopped 1 1/2 Tbsp. Worcestershire sauce
1 can (10 1/2 ounces) tomato soup 1 tsp. chili sauce
1 can (1 pound) cream-style corn 1 package (3 3/4 ounces) corn chips
1 can (15 1/2 ounces) kidney beans

Heat oven to 375 degrees F. Brown ground venison in large, heavy skillet. Add celery and onions. Cook and stir 3 minutes. Reduce heat. Stir in soup, corn, beans and seasonings. Pour into 2-quart casserole dish. Bake uncovered 20 minutes. Top with corn chips. Bake 10 to 15 minutes, or until chips are slightly toasted. Serves 8. Variation: omit corn chips. Bake 35 minutes and venison is a minimum of 165 degrees F. Serve with corn bread.

VENISON AND RICE CASSEROLE

Vegetable oil, margarine or non-stick cooking spray 2 cups onion, diced
2 pounds ground venison 1 green pepper, chopped
Pepper and salt, if desired 1 can (10.5 ounces) mushroom soup
2 cups celery, diced 1 can (10.5 ounces) chicken rice soup
1 cup uncooked rice

Brown venison in a little oil, margarine or non-stick cooking spray in large frying pan. Add salt (if desired), pepper, celery, onion and green pepper, and heat thoroughly. Combine remaining ingredients and pour over meat and vegetables. Simmer for 1 hour at 300 degrees F and internal temperature of the casserole is at least 165 degrees F. Serves 8.
**CHILI**

Vegetable oil, margarine or non-stick cooking spray 2 Tbsp. chili powder
2 pounds ground venison 1 Tbsp. salt, if desired
2 cloves garlic, minced 1 Tbsp. white pepper
1 tsp. paprika 1 Tbsp. diced chili pods
1 quart water

Brown meat in a little oil, margarine or non-stick cooking spray. Add seasonings. Add enough water to cover meat. Cook slowly 4 to 5 hours, stirring occasionally, and the chili is at least 165 degrees F. Add remaining water as needed. Serves 8.

**VENISON CHOP SUEY**

1 pound venison, cubed 2 Tbsp. molasses
Vegetable oil, margarine or non-stick cooking spray 2 Tbsp. soy sauce
1 cup onion, chopped 1 can bean sprouts
2 cups celery, chopped 2 Tbsp. cornstarch

Rice or chow mein noodles

Cook venison in a little oil, margarine or non-stick cooking spray; do not brown. Add onion, celery, molasses and soy sauce. Cook 5 minutes. Drain bean sprouts. Reserve liquid. Mix cornstarch and reserved liquid. Add slowly to meat mixture. Cook until thickened. Add bean sprouts. Heat thoroughly to a minimum of 165 degrees F. Serve over cooked rice or chow mein noodles, if desired. Serves 6.

**VENISON BURGERS (with suet)**

2 pounds lean venison, ground Sliced onion
1/8 to 1/4 pound suet Salt (optional)
A handful of moist bread Pepper

Mix well, shape and fry to at least 165 degrees F.
VENISON BURGER SKILLET MEAL

- Non-stick cooking spray, vegetable oil or margarine
- 1/2 pound ground venison
- 1/2 medium onion, chopped
- 1/2 green pepper, chopped
- 1 cup canned tomatoes
- 1/2 tsp. Worcestershire sauce
- 1/2 tsp. salt (optional)
- 1/16 tsp. pepper
- 3/4 cup water
- 3 ounces noodles

Brown venison in non-stick cooking spray, vegetable oil or a little margarine. Add chopped onion and green pepper and continue cooking until onion is light brown. Add all ingredients except noodles. Stir and heat to boiling. Spread uncooked noodles over the top. Cover tightly. Simmer for 15 minutes to at least 165 degrees F or until noodles are tender and have absorbed most of the liquid. Serves 2 to 4.

VENISON GOULASH

- 2 pounds small white onions, sliced
- 4 ounces canned vegetable shortening or vegetable oil
- 3 pounds stewing venison, cubed
- 1 Tbsp. marjoram
- 1 1/2 Tbsp. paprika
- 2 cans beef broth
- Noodles (if desired)

Sauté onion slices in shortening until soft. Add cubed venison and brown on all sides. Sprinkle marjoram and paprika over meat and cover with beef broth. Cover pot and simmer slowly 3 hours or until meat is tender and a minimum of 165 degrees F, stirring often and adding more warm beef broth from time to time. Gravy should be thick. Broad noodles are excellent with this gravy liberally spooned over them. Serves 8.

HEART

Heart may be fried, boiled or baked to at least 165 degrees F. Baked heart requires boiling prior to baking. Heart may be served hot or cold and sliced thin for sandwiches.
FRIED HEART

(See “Quick and Easy” section, pp. 22 – 24)

BOILED HEART

Slice the heart open and remove all blood vessels and tough tissue lining the inside of the heart. Boil heart until it reaches at least 165 degrees F and is tender.

BAKED HEART

Slice the heart open and remove all blood vessels and tough tissue lining the inside of the heart. Boil heart until tender. Split heart open and fill with dressing. Put the rest of the dressing around the heart. (The heart will be better if completely covered.) Bake at 350 degrees F until dressing reaches 165 degrees F. Try this dressing:

1 large onion, diced
1 cup celery, finely cut
1/4 cup margarine (1/2 stick)
1/2 loaf dry bread, cubed
1 tsp. salt (optional)
1/8 tsp. pepper
1 tsp. sage
Water

Cover onion and celery with a little water and simmer until tender. Add margarine and leave until melted. Mix bread cubes, salt, pepper and sage. Pour the liquid over the bread and stir until moist.

LIVER

(See “Quick and Easy” section, pp. 22 – 24)
MEATBALLS

2 pounds ground venison  4 eggs, slightly beaten, or 8 egg whites
2 tsp. salt (optional)  1 cup cracker crumbs, crushed
1/4 tsp. pepper  2 Tbsp. shortening or vegetable oil
1 onion, chopped fine  Tomato sauce or tomato juice
1 cup celery, chopped
1/2 cup green pepper, chopped

Mix ground venison, salt (if desired), pepper, onion, celery, green pepper, eggs or egg whites, and cracker crumbs. Shape into small balls and brown thoroughly in shortening. Pour tomato sauce or tomato juice over the meatballs. Cover and simmer for about 1 hour until venison is at least 165 degrees F. Serves 8 to 10.

MEAT LOAF

1 egg or 2 egg whites  1/2 pound ground pork
1/2 cup dried bread crumbs  1/2 Tbsp. onion, chopped
1 cup lowfat milk  1 1/2 tsp. salt (optional)
1 pound ground venison

Beat egg or egg whites; add bread crumbs and milk. Mix thoroughly with meats. Add onion and salt, if desired. Put in greased pan and bake at 350 degrees F for 1 hour or until the internal temperature is 165 degrees F. Tomato and green pepper may be added for seasoning. Serves 4.
MEAT PIE

1 large onion, chopped 1/8 tsp. oregano
2 Tbsp. vegetable oil 1 can (8 ounces) tomato sauce
1 pound ground venison 2 cups biscuit mix, prepared
1 tsp. salt (optional) according to directions on package
1/4 cup canned green chilies, 1/2 cup American cheese, shredded
   chopped (about 2 small peppers; optional)

In 10-inch cast-iron frying pan, cook onion in oil until wilted. Add ground venison, salt (if desired), green chilies and oregano. Cook until meat reaches 165 degrees F, breaking meat with a fork. Add undiluted tomato sauce and heat. Pat out biscuit dough on a piece of floured waxed paper to a 10-inch circle. Cut into wedges and place paper side up on top of the “filling.” Peel off paper and bake in hot oven (425 degrees F) for 15 to 20 minutes until the internal temperature is a minimum of 165 degrees F. Turn upside down on a broiler pan. Sprinkle with shredded cheese and slip under the broiler for a few minutes to melt the cheese. Serves 6.

MINCENEAT NO. 1

4 pounds of cooked venison 2 cups brown sugar
5 pounds of apples, chopped 2 scant Tbsp. salt (optional)
1/2 pound beef suet, ground 2 Tbsp. cinnamon
2 pounds dried currants 1 Tbsp. vanilla
4 pounds seedless raisins 1 tsp. cloves
2 pounds crushed pineapple 1 tsp. allspice
2 cups white sugar 3 quarts cider (sweet)

Combine all ingredients in a large pot. Cook slowly for 2 hours until the internal temperature is a minimum of 165 degrees F. Cool in the refrigerator in a shallow pan, pour into freezer containers and freeze. May be frozen up to 6 months. Refrigerated mincemeat may be stored up to 1 week.
MINCEMEAT NO. 2

2 pounds cooked venison, chopped in food grinder
4 pounds of apples, chopped
2 pounds raisins
4 cups brown or white sugar
3/8 pound shortening
1/2 tsp. cloves
1 tsp. mace
1/2 tsp. nutmeg
2 tsp. salt (optional)
1 1/2 tsp. cinnamon
Cider

Mix all ingredients except cider. Add cider to cover mixture or use fruit juices or water with 1/2 cup vinegar. Cook slowly until fruits are tender (about 1 hour or until the mincemeat is at least 165 degrees F). Cool in the refrigerator in a shallow pan, pour into freezer containers and freeze. May be frozen up to 6 months. Refrigerated mincemeat may be stored up to 1 week.

RIBS (CHINESE STYLE)

4 pounds of venison ribs
1/2 cup soy sauce
1/2 cup cooking sherry (optional)
1/2 cup water
4 Tbsp. brown sugar
2 cloves garlic, crushed

Preheat oven to 350 degrees F. Arrange the racks of ribs in a large roasting pan. Combine all other ingredients, stir well and pour over ribs. Cover pan. Bake 45 minutes, turning ribs over once or twice. Remove cover and continue cooking until golden brown and well done with a minimum temperature of 165 degrees F. Baste with sauce or turn ribs occasionally. For crispy brown ribs, try to arrange in roaster in single layer. Serves 6 to 8.
CORNISH “COUSIN-JACK” PASTIES

Crust for 5 pasties:

3 cups (level) flour
1 tsp. salt (optional)

1 cup vegetable shortening
1 cup cold water

Sift flour and salt (if desired) twice. Cut in shortening until pieces are the size of small peas. Add water, a little at a time. Toss until mixture holds together, handling as little as possible. Cut into 5 portions. On a floured board, roll out each portion the size of a 9-inch pie tin.

Filling:

1 1/8 cups rutabaga, grated
3 3/4 cups potatoes, cubed
(1/2 by 1/8 inch)
15 ounces venison flank or round steak, cubed (1/2 inch square)

5 ounces fresh pork, cubed
(1/2 inch square)
Salt (optional) and pepper
5 tsp. suet, finely chopped
5 Tbsp. onion, minced
11/8 cups potatoes, diced

For 1 pasty:

Grate 2 Tbsp. of rutabaga on dough. Add 3/4 cup of cubed potatoes. Add 3 ounces of venison flank steak and 1 ounce of fresh pork. Add salt (if desired) and pepper to taste. Sprinkle 1 tsp. finely chopped suet over meat. Add 1 Tbsp. minced onion. Add 2 Tbsp. of diced potatoes. Fold crust over and crinkle edge to seal. Cut slit in top of each pasty to allow steam to escape. Bake for 1 hour at 400 degrees F. Internal temperature should be at least 165 degrees F. Serves 5.
**VENISON PASTIES**

Deliciously seasoned meat and vegetable mixture will satisfy big appetites. Works well with beef, too.

*Pastry for 9-inch two-crust pie*

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4 pound venison round, thawed and cut into small cubes</td>
<td>1/4 tsp. pepper</td>
</tr>
<tr>
<td>2 potatoes, diced</td>
<td>1/4 to 1/2 tsp. dried leaf thyme, crushed (optional)</td>
</tr>
<tr>
<td>2 carrots, thinly sliced</td>
<td>2 Tbsp. chopped fresh parsley</td>
</tr>
<tr>
<td>3 Tbsp. minced onion</td>
<td>4 tsp. water</td>
</tr>
<tr>
<td>1 tsp. salt (optional)</td>
<td></td>
</tr>
</tbody>
</table>

Roll out half of pie dough and place in 9-inch pie plate. Mix venison and remaining ingredients. Place half of the mixture on pie dough in pie plate. Fold dough over filling to make half-moon shape that fills half of the pie plate. Seal and crimp edges of the dough.

Roll out second half of dough and place in other half of pie plate. Fill with the remaining meat mixture. Fold dough over into half-moon shape. Seal and crimp edges. Do not slit dough. You will have two half pies or pasties. Bake at 375 degrees F for 1 hour and 10 minutes. Pierce crust and vegetables with sharp fork to be sure vegetables are tender and internal temperature is at least 165 degrees F. Serves 4.

**ROASTING VENISON**

For roasting venison in moist heat, a favorite way is to lay out a piece of aluminum foil large enough to wrap the roast. Sprinkle half of a package of dehydrated vegetable soup mix on the aluminum foil. Place the thawed roast on top of it and spread the rest of the vegetable mix on top of the roast. Wrap the aluminum foil tightly around the roast and place it in an oven preheated to 350 degrees F. Cook the average 2- or 3-pound venison roast for 2 1/2 hours, until the thickest portion of the roast reaches 165 degrees F. The meat will be juicy and moist.
POT ROAST NO. 1

A neck or shoulder roast 1 medium onion
3 Tbsp. vegetable oil 2 bay leaves
Mustard Pepper to taste
1/2 tsp. salt (optional) 1/2 cup vinegar
1 clove garlic, crushed Water

Brown roast on all sides in Dutch oven. Cover roast thinly with mustard. Add garlic and onion, bay leaves, salt (if desired) and pepper to taste. Add vinegar and some water, and cook in Dutch oven at 350 degrees F until the thickest portion of the meat reaches 165 degrees F, adding water as needed.

POT ROAST NO. 2

4 to 5 pounds venison 2 Tbsp. Worcestershire sauce
Pepper and salt (optional) 1 medium onion, chopped
6 slices salt pork, 1/8 inch thick Hot water, if needed
2 lemons

Remove all fat from venison roast. Season with salt (if desired) and pepper. Line a roasting pan with salt pork that has had excess salt washed off. Place roast in pan. Add the juice of one lemon, Worcestershire sauce, chopped onion and slices of the other lemon. Cover and cook at 350 degrees F until thermometer inserted in the thickest portion of the roast reaches a minimum of 165 degrees F. Add a small amount of hot water as needed. Serves 12 to 16.
VENISON SAUERBRATEN

2 pounds venison chuck, round or rump roast
12 peppercorns, divided
10 whole cloves, divided
6 bay leaves, divided
1 1/2 cups vinegar, divided
Water to cover

Trim all visible fat from venison. Place venison in glass dish with cover. Add 6 peppercorns, 5 cloves and 3 bay leaves to 1 cup vinegar and pour over meat. Add enough water to cover meat. Cover dish and refrigerate. Allow to stand for up to 3 days. Remove meat from marinade and discard marinade. Heat fat in heavy frying pan. Brown meat on both sides. Add vegetables and 1/2 cup vinegar, 2 cups water, 6 peppercorns, 5 cloves and 3 bay leaves. Simmer until meat and vegetables are tender — approximately 1 1/2 hours and minimum of 165 degrees F. Remove meat and vegetables from pan. Add sugar and gingersnaps to remaining liquid to make gravy. Serve meat and vegetables with gravy. Serves 8.

(NOTE: For a less spicy flavor, substitute beef consommé for spiced vinegar when cooking meat. Larger amounts of venison may be prepared this way if your family likes sauerbraten.)

VENISON BURGER SOUP

1 to 2 pounds venison burger
2 Tbsp. vegetable oil
1 cup onion, diced
1 cup raw potatoes, cubed
1 cup carrots, sliced
1 cup cabbage, shredded
1/4 cup uncooked rice

Beef concentrate to taste
1 small bay leaf, crushed
1/2 tsp. thyme
2 tsp. salt (optional)
1/8 tsp. pepper
1 1/2 quarts water
1 can (20 ounces) tomatoes

Brown venison burger and onion in oil in large kettle. Add potatoes, carrots, cabbage and water. Bring to boil. Sprinkle rice into mixture. Add remaining ingredients, except tomatoes. Cover and simmer for 1 hour and make sure the venison is at least 165 degrees F. Add tomatoes just before serving. Skim off fat, if necessary. Serves 8.
CREOLE STEAK

1 large round steak  
Flour  
Salt (optional) and pepper  
Vegetable oil, margarine or non-stick cooking spray  

3 stalks celery, chopped  
1/2 green pepper, chopped  
3 large onions, chopped  
1 cup (canned or fresh) tomatoes

Pound flour, salt (if desired) and pepper into steak. Brown in vegetable oil, margarine or non-stick cooking spray. Cover with celery, green pepper and onions. Add tomatoes. Cover tightly and cook slowly until meat is tender, about 1 1/4 hours, and has an internal temperature of at least 165 degrees F.

FRESH STEAK

Cut steaks 1 inch thick. Put between waxed paper and flatten with mallet or side of a cleaver until 1/4 inch thick. Heat frying pan. Add the steaks and keep shaking the pan so steak does not stick. If desired, salt and pepper lightly while cooking. Turn just once, but keep shaking the pan all the time. Cook steaks until the internal temperature is at least 165 degrees F. Serve hot.

MARINATED STEAK

Steaks 1/4 to 1/2 inch thick  
1 quart vinegar  
1 quart water  
2 Tbsp. salt (optional)  
8 bay leaves and/or  
8 whole cloves

In the refrigerator, marinate steaks 12 to 24 hours in liquid made from above ingredients. Remove, drain and rinse in cold water. Dry on cloth or paper toweling. Salt (if desired) and pepper to taste. Fry at medium heat in margarine or non-stick cooking spray until the internal temperature is at least 165 degrees F.
PAN-FRIED VENISON STEAKS

1 pound round steaks, 1/2 inch thick 1 Tbsp. margarine
1/4 cup evaporated milk Salt (optional) and pepper to taste
1/4 cup flour

Pound steaks thoroughly with sharp-edged meat pounder. Cut into serving pieces. Dip steaks into milk and dredge in flour. Brown one side in hot margarine. Turn. Salt (if desired) and pepper to taste. Continue browning until second side is well browned and the internal temperature reaches 165 degrees F. Serves 4.

STEW

1 1/2 pounds venison (any part cut in pieces for stew) 1 package onion soup mix
6 medium potatoes, cut in chunks 1 can (8 ounces) tomato sauce
6 carrots, cut in chunks 1 can (2 ounces) mushroom bits and pieces
3 celery stalks, cut in 2-inch lengths

Put venison, potatoes, carrots and celery in casserole dish and sprinkle with onion soup mix. Add tomato sauce and mushrooms. Cover tightly, either with lid or aluminum foil. Place in oven at 350 degrees F and bake 1 1/2 hours or until venison is tender and has an internal temperature of at least 165 degrees F. Serves 6.
**STROGANOFF**

1/4 cup vegetable oil  
2 pounds venison cut in strips  
1/2 inch by 1/2 inch by 2 inches  
1/4 cup flour  
1 envelope onion soup mix  
3 cups water  
1 can (10.5 ounces) cream of mushroom soup  
6 Tbsp. catsup  
Noodles, rice or mashed potatoes

Heat oil. While oil is heating, shake meat in flour to coat. Sauté until browned. Add onion soup mix and water. Simmer until venison is tender (1 hour or more) and at least 165 degrees F. Add cream of mushroom soup and catsup. Heat thoroughly and serve over cooked noodles or rice, or mashed potatoes.  
Serves 6.

**CANNING VENISON**

Choose quality chilled meat. Remove excess fat. Soak strong-flavored meat for 1 hour in the refrigerator in a brine solution containing 1 tablespoon salt per quart of water. Rinse. Remove large bones. Hot-pack: precook meat until rare by roasting, stewing or browning in a small amount of fat. Add 1 teaspoon of salt per quart jar, if desired. Fill jars with pieces of venison and add boiling broth, meat drippings, water or tomato juice, leaving 1 inch headspace. Adjust lids and process, using information in Tables 2 and 3.

Table 2. Recommended process times for strips, cubes or chunks of meat in a dial-gauge pressure canner.

<table>
<thead>
<tr>
<th>Style of pack</th>
<th>Jar size</th>
<th>Process time</th>
<th>0-2,000 ft.</th>
<th>2,001-4,000 ft.</th>
<th>4,001-6,000 ft.</th>
<th>6,001-8,000 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hot/raw</td>
<td>pints</td>
<td>75 min.</td>
<td>11 lb.</td>
<td>12 lb.</td>
<td>13 lb.</td>
<td>14 lb.</td>
</tr>
<tr>
<td>Hot/raw</td>
<td>quarts</td>
<td>90 min.</td>
<td>11 lb.</td>
<td>12 lb.</td>
<td>13 lb.</td>
<td>14 lb.</td>
</tr>
</tbody>
</table>

Table 3. Recommended process times for strips, cubes or chunks of meat in a weighted-gauge pressure canner.

<table>
<thead>
<tr>
<th>Canner pressure (PSI) at altitudes of</th>
<th>0-1,000 ft.</th>
<th>Above 1,000 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hot/raw pints</td>
<td>75 min.</td>
<td>10 lb.</td>
</tr>
<tr>
<td>Hot/raw quarts</td>
<td>90 min.</td>
<td>10 lb.</td>
</tr>
<tr>
<td>Hot/raw 15 lb.</td>
<td></td>
<td>15 lb.</td>
</tr>
<tr>
<td>Hot/raw 10 lb.</td>
<td></td>
<td>15 lb.</td>
</tr>
</tbody>
</table>


**MAKING JERKY**

Before the advent of refrigeration, drying, smoking and salting of meat were commonly used to preserve meat and prevent spoilage. These practices antedate recorded history, and they were common by 1000 B.C. The Spaniards who came to North America following Columbus found dried meat (jerky) in use by the Indians. Meat was cut into thin strips and often dried without seasoning. The strips of meat were hung in trees, on poles, or in the tops of huts or tepees out of the reach of dogs. When the meat became hard, it was powdered and mixed with dried berries and corn or other dried fruits and vegetables to form pemmican. Animal fat was often added. In this form, the dried meat was transported in skins and was the principal food whenever tribes were migrating. Pemmican was often soaked four or five hours and boiled into a stew.

In recent years, jerky has again become a popular item. It can be purchased at the grocery, in sporting goods stores, in bars and even in some gas stations. As a result of its popularity, recipes for homemade jerky are in demand. The purpose of this section is to outline several methods of making jerky. All of the recipes listed can utilize meat from domestic sources or from big game. For example, the same recipe will produce beef or venison jerky.

**NOTE**: Because of recent food poisoning outbreaks, it is recommended to bring jerky to 165 degrees F and avoid cross-contamination with raw foods after this temperature is reached. This should be done before drying the meat. Thin strips of jerky make it difficult to measure the temperature of the meat. Cut at least one strip slightly thicker and use this strip to measure temperature.
MEAT PREPARATION

The Indians frequently used the loin or tenderloin, but any muscle from any place in the carcass can be used. Muscles from the round or leg are most often used today. It is recommended that muscles be removed from the carcass and made into jerky the day after the kill to prevent unnecessary bacterial growth. However, aged meat can be used. Meat that has been frozen and thawed can also be used satisfactorily. Freezing meat for a month at 0 degrees F or below before jerky is made ensures that it will be free from live parasites (which are rarely found in venison). To have freshly made jerky during the year, many people freeze meat that is to be made into jerky, then thaw it in small quantities and make it into jerky as it is needed.

Meat for jerky should be trimmed of fat and connective tissue and then cut into strips 1/4 inch thick, 1 inch wide and up to a foot long. Cut with (not across) the grain. Small muscles, 1 or 2 inches in diameter, are often separated and made into jerky without being cut into strips. These thicker pieces of meat take longer to absorb the salt and seasonings and longer to dry, but with these exceptions, no changes in the jerky recipes need to be made. Some recipes call for drying jerky in the sun. Because of sanitation problems, this method is not recommended. If sun drying is used, the jerky should be cut into strips 1/4 inch thick or less. The color of finished jerky ranges from light brown to black. Color variations depend on the recipe used, the species of animal and the age of the animal. The latter two factors are related to the myoglobin concentration in fresh meat. Myoglobin is the substance in meat responsible for color. Higher levels of myoglobin result in darker colored jerky.
CHECKLIST FOR MAKING JERKY

1. Use fresh, lean meat free of fat and connective tissue.

2. Slice the meat with the grain, not crosswise.

3. Add the correct amount of seasoning. If you do not have a scale, use approximate equivalent measures for the jerky recipes as follows:

   **Salt**
   - 10.5 oz (298 g) = 1 cup
   - 8.0 oz (227 g) = 3/4 cup
   - 2.0 oz (57 g) = 3 level Tbsp.

   **Sugar**
   - 5.0 oz (141 g) = 2/3 cup
   - 3.5 oz (99.2 g) = 1/2 cup
   - 1.0 oz (28 g) = 2 level Tbsp.

   **Ground spices**
   - 0.50 oz (14.2 g) = 2 level Tbsp.
   - 0.08 oz (2.3 g) = 1 level tsp.

4. Cure the meat the correct length of time at refrigerator temperatures. Salted meat should be placed in plastic, wooden, stainless steel or stone containers.

5. Oven or smokehouse temperatures of 170 to 190 degrees F are often recommended for the first 60 minutes, or until the meat reaches 165 degrees F. Keep the drying or smoking temperature in the smokehouse or oven at 140 degrees F after the meat reaches 165 degrees F (use a thermometer).

6. If an oven is used, line the sides and bottom with aluminum foil to catch the drippings. Open the door to the first or second stop to allow moisture to escape and to lower the oven temperature when necessary.

7. Use any hardwood for smoking. Do not use pine, fir or other conifers.

8. Remove the jerky from the smokehouse or oven before it gets too hard for your taste. Five pounds of fresh meat should weigh approximately 2 pounds after drying or smoking.

9. Store jerky in clean jars or plastic bags, or wrap it in freezer paper and freeze it. Although jerky will last almost indefinitely at any temperature, its quality deteriorates after a few months.

10. Alter seasonings and smoking or drying times to suit individual tastes. Examples of spices that could be added to 5 pounds of meat in the recipes below: 2 Tbsp. chili powder, 2 Tbsp. garlic powder, 2 Tbsp. onion powder, 1 tsp. ginger, 2 Tbsp. coriander or 1 tsp. allspice.
SIMPLE DRY-CURED JERKY

1. Prepare 5 pounds of meat as described above (1/4-inch strips).

2. Spread out meat and sprinkle on 2 ounces salt (3 Tbsp.), 0.16 ounce ground pepper (2 tsp.) and 1 ounce sugar (2 Tbsp.).

3. Put the meat in a pan or dish and let stand 24 hours in the refrigerator.

4. Dip strips of meat in liquid smoke 1 to 2 seconds for added flavor (optional).

5. Spread meat out in the top half of a kitchen oven on a rack to dry. Cook the strips on the rack to an internal temperature of 165 degrees F. Once an internal temperature of 165 degrees F has been reached, hold the strips at this temperature for a minimum of 60 minutes. Following the 60-minute hold time, open the oven door to the first or second stop and set the oven temperature at 140 degrees F (the lowest setting). Heat at 140 degrees F for 48 hours or until the meat reaches the desired dryness. Use an oven thermometer to make sure the oven does not get hotter than 140 degrees F. Higher temperatures result in hard, brittle jerky that crumbles when it is eaten.
PICKLE-CURED JERKY

1. Cut the meat into 1/4- by 1-inch strips.
2. Make a brine as follows:
   1 gallon water
   8 ounces salt (3/4 cup)
   3.5 ounces sugar (1/2 cup)
   0.5 ounce ground pepper (2 Tbsp.)
3. Stir to dissolve salt and sugar.
4. Put the meat strips into the brine and leave them in the refrigerator overnight.
5. Pour off the brine and let cold tap water run on the meat in a container for one hour.
6. Hang the strips of meat in a smokehouse, heat at 170 degrees F until meat reaches 165 degrees F, then dry at 140 degrees F until the jerky is the desired texture. Use any hardwood for smoking.

**NOTE:** An oven, as described under “Simple Dry-cured Jerky,” can be used if a smokehouse is not available, but the smoked flavor will be lacking. In addition to pepper, some people add 10 bay leaves, 1 tsp. of cloves or 1 tsp. of sage (or all of these) to the above brine.

HOT PICKLE-CURED JERKY

1. Prepare the jerky as described in “Simple Dry-cured Jerky”, then pound the meat on both sides to work in the spices. Other spices and liquid smoke can be added.
2. Immerse the fresh meat strips (a few at a time) into boiling brine (see “Pickle-cured Jerky”) until they turn gray (approximately 1 or 2 minutes).
3. Remove the meat from the brine and oven-dry or smoke as described in the preceding recipes.

**NOTE:** Hot pickle-cured jerky is preferred by some because the boiling brine sterilizes the surface of the meat before the meat is dried.
MARINATED JERKY

1. Cut the meat into 1/4- by 1-inch strips.
2. Cover the meat with 1 cup soy sauce and 3 cups water and add 0.16 ounce pepper (2 tsp.) and 0.08 ounce ground ginger (1 tsp.) per 5 pounds of meat.
3. Stir the meat and marinate for 12 hours in the refrigerator.
4. Oven-dry or smoke in a smokehouse as described for pickle-cured jerky.

JERKY FROM GROUND MEAT

1. Cut 5 pounds of meat relatively free of fat and connective tissue into 1-inch squares. Sprinkle 2 ounces salt (3 level Tbsp.), 0.24 ounce ground pepper (1 level Tbsp.), 1 ounce sugar (2 level Tbsp.) and 5 Tbsp. Worcestershire sauce over the meat.
2. Grind meat through a 1/8-inch plate. Divide the meat into four or five portions.
3. Place each meat portion on a sheet of freezer paper, plastic or aluminum foil, and flatten the meat until it is about 1 inch thick. Now cover the meat with a second piece of freezer paper, plastic or aluminum foil, and use a rolling pin to flatten the meat to 1/4 inch in thickness. Peel off the top layer of freezer paper. Turn a cake cooling rack or screen over the meat mixture and reverse. Peel off the other sheet used to flatten the meat.
4. Heat at 170 degrees F until meat reaches 165 degrees F.
5. Oven dry at 140 degrees F or smoke in a smokehouse until jerky reaches the desired dryness.
6. Slice into thin strips with a knife or a pair of kitchen shears. NOTE: Ground meat can be used if it is 10 to 15 percent fat or less and if care is taken to make sure the spices are thoroughly mixed into the meat.
Making Sausage

**CASINGS**

Most sausages are molded and processed in casings. Casings serve as the container for sausage products during handling. Before 1920, all sausage casings were prepared from animal intestines. Today’s sausage casings include several types of synthetic casings. For example, regenerated cellulose casings are used in the preparation of the major portion of today’s sausage production.

Pork casings, pickled or preserved in dry salt, are obtainable from many locker plants. Beef casings, sheep casings and artificial casings are also often available from some locker plants or places where sausage is made. The use of casings can be avoided if fresh game sausage is made into patties and if cooked sausage such as salami is made in loaf pans. Sausages cooked in loaf pans may require the addition of bread crumbs, soy protein concentrate or other binder at the 5 to 10 percent level to prevent excessive fat and moisture separation.

All casings preserved in dry salt must first be soaked in lukewarm water for approximately 30 minutes before use. Flush each casing by putting the end of the casing over the cold water tap and running cold water through the casing. Unused casings can be drained, covered again with fine salt and frozen.

Some artificial casings should be soaked in hot tap water (100 degrees F) at least 30 minutes but not over 4 hours before use and punctured with a knife point before sausage is stuffed. The purpose of puncturing the casing is to eliminate air and fat pockets in the finished sausage.
FRESH GAME SAUSAGE

17 pounds lean boneless meat
8 pounds ground pork or beef
(25 to 30 percent fat)
3/4 cup (8 ounces or 227 grams) salt

6 Tbsp. (42 grams) ground black pepper
5 Tbsp. (14 grams) rubbed sage

Grind venison through a 1/2- to 3/4-inch plate. Add seasonings by sprinkling over the meat, and add pork or beef. Mix thoroughly. Then grind through a 3/16-inch plate. The sausage can be wrapped and frozen, formed into patties or stuffed into casings. Cook the sausage to 165 degrees F. **NOTE:** This is a mild sausage. For a spicy or hot formulation, add an additional:

2 Tbsp. red pepper
1 Tbsp. nutmeg
1 Tbsp. ginger
1 Tbsp. mace

BOCKWURST

19 pounds lean venison
6 pounds ground pork or beef
(25 to 30 percent fat)
3/4 pound nonfat dry milk
3/4 cup (8 ounces or 227 grams) salt
2 quarts ice
3 eggs or 6 egg whites

2 Tbsp. (28 grams) sugar
3 Tbsp. (18.9 grams) onion powder
4 Tbsp. (26.4 grams) ground white pepper
1 Tbsp. (5.4 grams) ground mace
1 Tbsp. (4.8 g) ground ginger

Grind venison through a 1/2- to 3/4-inch plate. Add seasonings by sprinkling the ingredients over the meat, and add pork or beef. Mix thoroughly and grind through a 1/4-inch plate while adding ice. Regrind through a 1/8-inch plate. Stuff into hog or collagen casings. Cook in water at 170 degrees F. Use a meat thermometer and cook to 165 degrees F internal temperature. Immediately immerse in cold water until sausage reaches an internal temperature of 100 degrees F. Blot dry. Refrigerate at 32 to 38 degrees F.

**NOTE:** This product may be refrigerated after stuffing and cooked from the fresh state for immediate consumption.
**COOKED SALAMI**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>19 pounds lean boneless venison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 pounds ground pork or beef (25 to 30 percent fat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 cup (10.5 ounces or 298 grams) salt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2 cup (100 grams) sugar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 quart ice</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Tbsp. (29.6 grams) ground black pepper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Tbsp. (13.5 grams) garlic powder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Tbsp. (14.5 grams) coriander seed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 tsp. (7 grams) ground mace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 tsp. (7 grams) ground cardamom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 tsp. (21 grams) cure**</td>
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</tbody>
</table>

Grind venison through a 1/2- to 3/4-inch plate. Add seasonings by sprinkling the ingredients over the meat, and add pork or beef. Mix thoroughly. Then grind through a 1/4-inch plate while adding ice. Regrind through a 1/8-inch plate. Stuff into artificial or natural casings 2 to 3 inches in diameter. Hang in smokehouse and heat at 180 degrees F while smoking. Use a meat thermometer and cook to an internal temperature of 165 degrees F. Chill in a cold water bath until internal temperature is 100 degrees F. Refrigerate to 32 to 38 degrees F before slicing. **See note on cure on p. 45.

**PEPPERONI**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
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</tr>
</thead>
<tbody>
<tr>
<td>22 pounds lean venison</td>
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<td></td>
</tr>
<tr>
<td>3 pounds ground pork or beef (25 to 30 percent fat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 ounces (426 grams) salt</td>
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</tr>
<tr>
<td>2 1/4 ounces (64 grams) cane sugar (dextrose)</td>
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</tr>
<tr>
<td></td>
<td>3 tsp cure** dissolved in 1 cup water</td>
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</tr>
<tr>
<td></td>
<td>3/4 cup (75 grams) ground red pepper</td>
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</tr>
<tr>
<td></td>
<td>3/4 cup (64 grams) ground allspice</td>
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</tr>
<tr>
<td></td>
<td>1 Tbsp. (5 grams) garlic powder</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 Tbsp. (28 grams) fennel seed</td>
<td></td>
</tr>
</tbody>
</table>

Grind venison through a 1/2- to 3/4-inch plate. Add seasonings by sprinkling the ingredients over the meat, and add pork or beef. Mix thoroughly. Then grind through a 1/8-inch plate. Let stand in a 6-inch-deep tray at 38 degrees F for 72 hours. Stuff in hog casings. Heat in 170 degree F smokehouse to 165 degrees F. Reduce smokehouse temperature to 140 degrees F and dry for 48 hours. Refrigerate until needed.
POTATO SAUSAGE

4 pounds pork
8 pounds venison
13 pounds potatoes
6 medium onions

3/4 cup salt
1/3 cup pepper
2 Tbsp. sugar
Casings

Grind pork and venison as for hamburger. Peel and grind potatoes and onions (coarsely). Add salt, pepper and sugar. Mix together and put in casings that have been soaked in water for several hours or overnight. Put in casings as soon as potatoes are ground and mixed — potatoes will turn dark if allowed to stand. Tie ends and prick each ring in several places with a large needle. Place rings in kettle of water. Bring just to boil and simmer until the sausage reaches 165 degrees F. (Boiling too hard can cause rings to burst.) Cool, wrap and freeze. When ready to eat, thaw in refrigerator, then finish cooking in a little water, simmering about 10 minutes or until done. This makes about 35 rings the size of a small ring of bologna.