

# BARBECUE & FOOD SAFETY

COOKING OUTDOORS WAS ONCE ONLY A SUMMER ACTIVITY SHARED WITH FAMILY AND FRIENDS. NOW MORE THAN HALF OF AMERICANS SAY THEY ARE COOKING OUTDOORS YEAR ROUND. SO WHETHER THE SNOW IS BLOWING OR THE SUN IS SHINING BRIGHTLY, IT'S IMPORTANT TO FOLLOW FOOD SAFETY GUIDELINES TO PREVENT HARMFUL BACTERIA FROM MULTIPLYING AND CAUSING FOODBORNE ILLNESS. USE THESE SIMPLE GUIDELINES FOR GRILLING FOOD SAFELY.

## FROM THE STORE

When shopping, buy cold food like meat and poultry last, right before checkout. Separate raw meat and poultry from other food in your shopping cart. To guard against cross-contamination — which can happen when raw meat or poultry juices drip on other food — put packages of raw meat and poultry into plastic bags. Plan to drive directly home from the grocery store. You may want to take a cooler with ice for perishables. Always refrigerate perishable food within 2 hours. Refrigerate within 1 hour when the temperature is above 90 °F. At home, place meat and poultry in the refrigerator immediately. Freeze poultry and ground meat that won't be used in 1 or 2 days; freeze other meat within 4 to 5 days.

## THAW SAFELY

Completely thaw meat and poultry before grilling so it cooks more evenly. Use the refrigerator for slow, safe thawing or thaw sealed packages in cold water. For quicker thawing, you can microwave defrost if the food will be placed immediately on the grill.

## MARINATING

A marinade is a savory, acidic sauce in which food is soaked to enrich its flavor or tenderize it. Marinate food in the refrigerator, not on the counter. Poultry and cubed meat or stew meat can be marinated up to 2 days. Beef, veal, pork, and lamb roasts, chops, and steaks may be marinated up to 5 days. If some of the marinade is to be used as a sauce on the cooked food, reserve a portion of the marinade before putting raw meat and poultry in it. However, if the marinade used on raw meat or poultry is to be reused, make sure to let it come to a boil first to destroy any harmful bacteria.

## TRANSPORTING

When carrying food to another location, keep it cold to minimize bacterial growth. Use an insulated cooler with sufficient ice or ice packs to keep the food at 40 °F or below. Pack food right from the refrigerator into the cooler immediately before leaving home.

## KEEP COLD FOOD COLD & HOT FOOD HOT

Keep meat and poultry refrigerated until ready to use. Only take out the meat and poultry that will immediately be placed on the grill. When using a cooler, keep it out of the direct sun by placing it in the shade or shelter. Avoid opening the lid too often, which lets cold air out and warm air in. Pack beverages in one cooler and perishables in a separate cooler. After cooking meat and poultry on the grill, keep it hot until served — at 140 °F or warmer. Keep cooked meats hot by setting them to the side of the grill rack, not directly over the coals where they could overcook. At home, the cooked meat can be kept hot in an oven set at approximately 200 °F, in a chafing dish or slow cooker, or on a warming tray.

## PRECOOKING

Precooking food partially in the microwave, oven, or stove is a good way of reducing grilling time. Just make sure that the food goes immediately on the preheated grill to complete cooking.

## KEEP EVERYTHING CLEAN

Be sure there are plenty of clean utensils and platters. To prevent foodborne illness, don't use the same platter and utensils for raw and cooked meat and poultry. Harmful bacteria present in raw meat and poultry and their juices can contaminate safely cooked food. If you're eating away from home, find out if there's a source of clean water. If not, bring water for preparation and cleaning. Be sure to pack clean cloths and moist towelettes so you can clean the surface, as well as your hands.



## COOK THOROUGHLY

Cook food to a safe minimum internal temperature to destroy harmful bacteria. Meat and poultry cooked on a grill often browns very fast on the outside. Use a food thermometer to be sure the food has reached a safe minimum internal temperature. Meats: Cook all raw beef, pork, lamb and veal steaks, chops, and roasts to a minimum internal temperature of 145 °F as measured with a food thermometer before removing meat from the heat source. For safety and quality, allow meat to rest for at least three minutes before carving or consuming. For reasons of personal preference, consumers may choose to cook meat to higher temperatures. Cook all raw ground beef, pork, lamb, and veal to an internal temperature of 160 °F as measured with a food thermometer. Poultry: Cook all poultry to a safe minimum internal temperature of 165 °F as measured with a food thermometer. NEVER partially grill meat or poultry and finish cooking later.

## SERVING THE FOOD

When taking food off the grill, use a clean platter. Don't put cooked food on the same platter that held raw meat or poultry. Any harmful bacteria present in the raw meat juices could contaminate safely cooked food. In hot weather (above 90 °F), food should never sit out for more than 1 hour.

## LEFTOVERS & REHEATING

Refrigerate any leftovers promptly in shallow containers. Discard any food left out more than 2 hours (1 hour if temperatures are above 90 °F). When reheating fully cooked meats like hot dogs, grill to 165 °F or until steaming hot.

## SAFE SMOKING

Smoking is cooking food indirectly in the presence of a fire. It can be done in a covered grill if a pan of water is placed beneath the meat or poultry on the grill; and meats can be smoked in a "smoker," which is an outdoor cooker especially designed for smoking foods. Smoking is done much more slowly than grilling, so less tender meats benefit from this method, and a natural smoke flavoring permeates the meat. The temperature in the smoker should be maintained at 250 to 300 °F for safety. Use a food thermometer to be sure the food has reached a safe internal temperature.

## PIT ROASTING

Pit roasting is cooking meat in a large, level hole dug in the earth. A hardwood fire is built in the pit, requiring wood equal to about 2½ times the volume of the pit. The hardwood is allowed to burn until the wood reduces and the pit is half filled with burning coals. This can require 4 to 6 hours burning time. Cooking may require 10 to 12 hours or more and is difficult to estimate. A food thermometer must be used to determine the meat's safety and doneness. There are many variables such as outdoor temperature, the size and thickness of the meat, and how fast the coals are cooking.

## DOES GRILLING POSE A CANCER RISK?

Some studies suggest there may be a cancer risk related to eating food cooked by high-heat cooking techniques as grilling, frying, and broiling. Based on present research findings, eating moderate amounts of grilled meats like fish, meat, and poultry cooked — without charring — to a safe temperature does not pose a problem. To prevent charring, remove visible fat that can cause a flare-up. Precook meat in the microwave immediately before placing it on the grill to release some of the juices that can drop on coals. Cook food in the center of the grill and move coals to the side to prevent fat and juices from dripping on them. Cut charred portions off the meat.

## SAFE MINIMUM INTERNAL TEMPERATURES

Whole poultry: 165 °F

Poultry breasts: 165 °F

Ground poultry: 165 °F

Ground meats: 160 °F

Steak, pork, lamb, and veal; 145 °F (beef, roasts and chops), allow to rest at least 3 minutes.

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