## 

# Temperature and Time Requirements for Food

#### CONTROLLING GROWTH OF FOODBORNE PATHOGENS

## **Temperature danger zone**

The temperature range at which diseasecausing bacteria grow best in time/temperature control for safety food (TCS) is called the temperature danger zone.

- Temperature danger zone is between 41°F and 135°F.
- TCS food must pass through the temperature danger zone as quickly as possible.
- Keep hot food hot and cold food cold. Always use a thermometer to check food temperatures.

## **Cooling food**

- Cool hot food from:
  - 135°F to 70°F within two hours

#### AND

- 135°F to 41°F or below within a total of six hours.
- The faster food is cooled, the better.

## Cold holding food

- Maintain cold food at 41°F or below.
- Frozen food must remain frozen.

## Cooking raw animal food

The table below shows minimum requirements for some common raw animal food.

| Food  | Internal<br>temperature and<br>time  |
|---|--|
| Poultry<br>Wild animals<br>Stuffed fish, meat, pasta or<br>poultry<br>Stuffing containing fish,<br>meat or poultry      | 165°F for 15<br>seconds  |
| Chopped or ground meat,<br>fish, and game animals<br>Ratitae<br>Injected or tenderized<br>meats<br>Eggs for hot holding | 158°F (immediate)<br>OR<br>155°F for 15<br>seconds<br>OR<br>150°F for 1 minute<br>OR<br>145°F for 3<br>minutes |
| Fish<br>Whole muscle meat<br>Game animals<br>Eggs for immediate service   | 145°F for 15<br>seconds  |

### Hot holding food

- Maintain hot food at 135°F or above.
- Properly cooked roasts may be held at 130°F or above.

#### **Reheating food**

- Food made in-house and reheated for hot holding must reach an internal temperature of at least 165°F for 15 seconds.
- Food made in a food processing plant, opened in the food establishment, and reheated for hot holding must reach a temperature of 135°F.
- Reheat food rapidly, within two hours.
- Food that has been cooked and cooled properly may be served at any temperature if it is going to be served immediately.



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#### **Resources**

Minnesota Department of Health Food Business Safety (www.health.state.mn.us/foodbizsafety)

Minnesota Department of Health Food, Pools, and Lodging Services PO Box 64975 St. Paul, MN 55164-0975 651-201-4500 health.foodlodging@state.mn.us www.health.state.mn.us

Minnesota Department of Agriculture Food and Feed Safety Division 625 Robert Street N St. Paul, MN 55155-2538 651-201-6027 <u>MDA.FFSD.Info@state.mn.us</u> www.mda.state.mn.us

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