DISASTER PREPAREDNESS

Power Outages and Food Safety



Long-term power outages lasting hours to weeks can be much more inconvenient than short-term outages lasting seconds or minutes. It is important to know what to do with perishable foods when long-term outages happen.

How long has the power been out?

Sometimes power outages happen while you are away from home, such as at work or on vacation.

When power comes back on, refrigerators and freezers will work to cool everything down again.

While power was out, food may have been at unsafe temperatures for long enough to spoil food or allow harmful bacteria and microorganisms to grow.

To help detect if power was off for a long time, try this tip from University of Nebraska Extension:

Store an ice cube or two in a sealed plastic bag or small container in the freezer; a sealed bag/container is important so the ice cube doesn't evaporate and disappear. If the ice cube has melted down from its original shape, you'll know the power was off for an extended period of time.

A melted ice cube means power has been out long enough that the safest option is to throw out all the food.

Thermometers

Invest in refrigerator and freezer thermometers to help you identify food temperatures during a power outage.

- Freezer temperature should be at or below 0°F.
- Refrigerator temperature should be at or below 40°F.

Refrigerators

During a power outage, refrigerated foods are safe for up to 4 hours. Remember to keep the refrigerator door closed as much as possible.

At the start of a power outage, make a plan to use perishable foods before they become unsafe. Plan your next meal around these foods, and perhaps share with a neighbor.

After 4 hours, throw out perishable foods, such as raw meat, milk, and leftovers.

Freezers

During a power outage, foods in a half-full freezer are safe up to 24 hours. Like the refrigerator, remember to keep the freezer door closed as much as possible. If the freezer is full, food can stay safe up to 48 hours.

Refreezing

Once the power returns, foods that have ice crystals or are at 40°F or colder can be refrozen. Be aware that the quality of the food may go down during this slight thaw and refreeze.

Using ice in freezers and refrigerators

If available, add bags of ice, ice packs, or ice blocks to your refrigerators and freezers to keep foods cold longer.

Group foods close together, but keep raw meat separate from other foods.





Keep foods at safe temperatures longer

- Move perishable refrigerated foods, such as milk and raw meat, to the freezer.
- Group refrigerated foods together.
- If your refrigerator or freezer has door storage, move foods into the body of the refrigerator or freezer where it is colder.
- Use coolers with lids and ice, ice packs, or ice blocks to store foods.

When power returns

...and you have thermometers

Check the temperature on the thermometer in your refrigerators and freezers.

- If freezer thermometers read 40°F or colder, the food is safe and may be refrozen.
- If refrigerator thermometers read 40°F or warmer, and power has been out for 4 hours or more, throw out all perishable foods.

...and you DO NOT have thermometers

- Feel for ice crystals on freezer packages, or place a food thermometer – not a freezer thermometer – between packages to see that foods are 40°F or colder. In these cases, foods are safe to refreeze.
- Perishable foods, such as milk, juice, and meats which are above 40°F for 2 hours or more should be thrown out.

Power outages in winter

When power goes out in winter, do not place perishable food outside. Outside air temperatures may not be cold enough to keep foods at safe temperatures, and as the sun moves throughout the day, it can heat up previously shaded areas.

Avoid sticking food in snow, as this can expose the food to dirt, microorganisms, and animals, which can contaminate the food. *Do not use snow to fill coolers, refrigerators, or freezers*. This can also expose food to contamination.

If the outage is expected to be short, keep food in your refrigerators and freezer, using ice, ice packs, or ice blocks. Remember, full freezers can keep food safe for around 48 hours.

Insurance

Your homeowner's insurance policy may cover and reimburse the cost of food lost during an outage.

Call your local office

Contact your local Illinois Extension office with your food safety questions: go.illinois.edu/FindILExtension

RESOURCES

Brison, Cindy. (2020). What to do with perishable food during a power outage. University of Nebraska-Lincoln. Retrieved December 5, 2020, from https://doi.org/10.108/j.jr/bit.19/37MEBUI

Food and Drug Administration. (2020, February). Food and water safety during power outages and floods. Retrieved December 5, 2020, from bit.ly/3aUBP1A

United States Department of Agriculture. (2013, August). Food Safety and Inspection Service, Keep your food safe during emergencies: Power outages, floods & fires. Retrieved December 5, 2020, from bit.ly/3vSK5Yq

United States Department of Health & Human Services. (2020). Food safety during power outage. FoodSafety.gov. Retrieved December 5, 2020, from bit.ly/3aWWBh5

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