

DISASTER PREPAREDNESS MANUAL

PREPARED THROUGH THE COMBINED EFFORTS OF



ASCENT BIBLE CHURCH



R&R FOR VETS

CHAPTERS

1: Shelter

2: Heat

3: Power

4: Water

5: Food

6: Communications

7: Transportation

8: Health/Medical/Hygiene

9: Finances

10: Safety/Security

TIPS FOR DISASTER PREPAREDNESS

This manual contains a collection of practical insights to help you prepare for emergencies with ease and confidence. The tips and advice they present will help you tackle disaster planning with ease and confidence, enhancing your experience and resilience during challenging moments. Each chapter is designed to be informative, instructional, practical, actionable, and straightforward, helping you simplify your preparations. From cost-saving measures to clever do-it-yourself solutions, these tips are your tools for a smoother experience in times of need.

Stay Informed and Ready for Anything

Creating an emergency supply kit and an adaptable emergency plan can make all the difference - no matter the type of disaster. While these basics are essential, staying aware of the emergencies likely to affect your area is just as important. To prepare wisely, stay updated on local risks and adapt your preparations to your unique needs.

Remember, if you're ever in an emergency, follow directions from authorities carefully. Above all, stay calm, be patient, and think before acting. With these steps, you'll be ready to handle the unexpected confidently.

In disaster planning, the right preparation and knowledge can ease the stress of unexpected events and keep you focused on what matters most. **Tips for Disaster Preparedness** is a growing collection of useful insights designed to save time, reduce costs, and focus on practical, effective preparation. Whether it's suggestions for a well-stocked pantry, money-saving DIY alternatives, or quick fixes that boost resilience, these tips support you in tough situations. Every entry is crafted to be practical, accessible, and adaptable—making it easier to stay ready, no matter what.

To help you take action, many tips focus on budget-friendly stockpiling strategies, such as choosing canned goods, dehydrated foods, and items that work well in cooking during a power outage. Each recommendation considers long-term storage, focusing on ingredients like beans, pasta, dehydrated vegetables, canned soups, and pantry essentials. Plus, tips on alternative cooking methods, like using cast iron pots and pans or Dutch ovens outdoors, ensuring that even during a power outage, you'll have a reliable way to prepare nutritious, comforting meals.

Another key to readiness is sanitation. Power outages make typical kitchen tasks more challenging, so it's vital to understand how to maintain a clean, safe cooking area without electricity. The tips here cover essential sanitation and waste management steps to prevent contamination and keep your household running smoothly when traditional resources are unavailable. Proper handwashing methods, disposal practices, and water-saving tips are part of a strong emergency plan, especially when using water catchment systems or boiling water for sanitation.

By following these tips, you'll approach disaster preparedness with a sense of calm and confidence. Each suggestion on this page has been crafted to give practical solutions for real-life situations, especially during a power outage. This collection is here to be a trusted resource that strengthens your readiness and adaptability, helping you stay safe, comfortable, and prepared for whatever challenges may arise.

Periodically review these chapters to ensure that you stay up-to-speed on their contents. Extended time between assembly of these materials and your eventual need to use them may cause you to falter or err in their application when a crisis occurs.

SUPPLYING WATER DURING POWER OUTAGES

Water preservation during **power outages** is crucial to ensuring access to clean water during emergencies. Most public water systems rely on electricity for distribution and treatment, meaning a power outage can quickly disrupt water availability and quality. By preparing alternative water sources, such as rainwater catchment systems, and storing emergency supplies, you secure your household from water shortages during prolonged outages.

Water Systems and Power Dependency

The resilience of a community's water system during a power grid shutdown or disaster can vary greatly depending on several factors. Most municipal water systems typically rely on electricity to pump water from treatment plants to storage tanks and homes. The system's ability to supply water is compromised when the power goes out. Furthermore, water treatment facilities also need power for purification processes. Without electricity, there may be contamination risks, affecting water quality.

What Happens During a Power Outage

Depending on the stored water reserves, many systems continue distributing water during short-term outages. However, long-term power outages can exhaust stored water, disrupting treatment processes and leading to dry taps. In extreme cases, like societal collapse, where infrastructure is at risk, the situation worsens—water systems may deteriorate, and maintenance could cease, resulting in contamination and supply loss.

Alternative Water Sources and Water Preservation Systems:

Many communities rely on backup water sources, such as wells, reservoirs, or rainwater harvesting systems, to prevent such crises. These sources provide crucial alternatives during prolonged outages. Individuals should also prepare by exploring water preservation and collection methods and having emergency water supplies ready –

1. Water Storage for Emergencies

Store one gallon of water per person daily for at least three days.

Use food-grade containers for long-term water storage.

Label containers with the date and rotate stored water every 6 months to ensure freshness.

2. Water Purification Methods

Have a water filtration system (e.g., portable filters, Berkey, LifeStraw) to purify water if needed.

Use water purification tablets as a backup for emergency treatment.

Boil water for at least 1 minute to ensure safety in case of contamination.

3. Alternative Water Sources

Identify local natural water sources, such as lakes or rivers, and have methods to purify water from them.

If you have a well, ensure backup power for your well pump to maintain access to water.

4. Water Conservation Practices

Limit water usage only for essential purposes (drinking, cooking).

Use disposable utensils and plates to avoid unnecessary water consumption during dishwashing.

Have biodegradable soap for cleaning without harming the environment.

Water Preservation Checklist

1. Water Storage:

Importantly, store at least 1 gallon of water per person daily for at least three days.

Use food-grade containers (e.g., 5-gallon water jugs or plastic drums).

Label containers with the date and rotate stored water every 6 months.

Additionally, consider portable water storage options like water bricks or collapsible containers.

2. Water Sources:

Identify backup water sources (e.g., rainwater, ponds, rivers, lakes).

Know how to access water from your home's water heater or toilet tank (if clean).

Set up a rainwater catchment system if possible.

Rainwater Catchment System

Set up a rain barrel under your canales/gutter downspouts to collect rainwater.

Install a screen/debris filter to keep leaves and contaminants out of the water.

Ensure proper drainage to avoid overflowing and damage to your home's foundation.

When rain barrel is filled, use a screen or cover to prevent mosquitoes from breeding in stored water.

3. Water Filtration & Purification:

Stock water filters (e.g., gravity filters, portable straw filters).

Have water purification tablets or drops on hand.

Keep a supply of unscented bleach (4–6 drops per quart of water for purification).

Consider investing in a portable UV water purifier or solar still for emergency use.

4. Water-Saving Measures:

Use disposable dishes, cups, and utensils to minimize washing.

Reuse gray water (e.g., from washing hands or dishes) for non-consumption tasks like flushing toilets.

Limit water usage by prioritizing drinking, cooking, and essential hygiene.

5. Sanitation & Hygiene:

Store hand sanitizer and wet wipes for cleaning without water.

Boil water for sanitation if necessary.

Use a camping toilet or set up a sanitation system that doesn't require water.

6. Contaminated Water Disposal:

Have containers or designated areas for safely storing or disposing of wastewater.

furthermore, ensure gray water disposal doesn't contaminate potable water supplies.

7. Boiling Water:

Prepare a safe method for boiling water (e.g., propane stove, wood-burning stove).

Depending on altitude, boil water for 1–3 minutes to purify it.

8. Backup Water Pumps:

If reliant on well water, have a manual or solar-powered backup pump.

Test the pump regularly to ensure it functions during an outage.

9. Community Resources:

Familiarize yourself with local water distribution points or community resources.

Have a plan for communicating with neighbors or authorities regarding water shortages.

This checklist will help you preserve and manage water efficiently during power outages. Print this page and insert it into your 3-ring binder before the power goes off. After it is off it is too late.

QUICK TIP: Fill Your Bathtub with Water For Use During A Power Outage

Filling your bathtub with water during a power outage is a practical step that can provide a reserve for essential uses when water service might be interrupted. Here are some key reasons to fill your tub and how to make the most of this emergency water reserve:



To store water, fill your bathtub and other containers to ensure enough for flushing toilets, washing hands and dishes, and bathing. Before filling the tub, clean and dry it thoroughly. A disinfectant or bleach works well for this. Secure the drain with a rubber or silicone stopper or seal it with duct tape to prevent leaks. Once filled, cover the tub with a sheet or tarp to keep out dirt and insects. Keep the bathroom door closed to maintain cleanliness. Plan your water usage, aiming for at least one gallon per person daily for at least three days. Remember, during an outage, your available water is limited to what's stored in your tank. You can also refill your toilet tank using a bucket.

Important Considerations

Clean the Tub First: A quick bathtub scrub helps prevent contamination before filling.

Cover if Possible: To keep the water as clean as possible, consider covering the tub with a plastic sheet, especially if you anticipate using it over several days.

Keep Additional Supplies: Have containers or buckets to transfer the water easily for various uses.

1. Toilet Flushing

Use: When the power goes out, electric pumps that feed water to toilets may stop, so you can use the bathtub water to flush manually.

How-To: Pour a bucket of water directly into the toilet bowl to trigger a flush. This method maintains sanitation even when plumbing systems aren't operational.

2. Personal Hygiene

Use: Bathtub water is invaluable for washing hands and face and even doing quick sponge baths.

How-To: Fill a small container or basin with bathtub water as needed for washing, helping conserve any potable water for drinking.

3. Washing Dishes

Use: If the outage is extended, you can use this water for rinsing dishes.

How-To: If possible, add a few drops of bleach or dish soap to maintain cleanliness when reusing the water.

4. Cooking and Food Preparation

Use: Bathtub water isn't ideal for drinking directly, but if boiled, it can be used for rinsing produce or cooking essentials like rice, pasta, and beans.

How-To: Boiling the water will kill off most bacteria, making it safer for food prep.

5. Fire Safety

Use: In areas prone to wildfires or if you're using candles for light, having water ready is crucial for quickly extinguishing small fires.

How-To: Keep a bucket nearby in an emergency, especially if your lighting or cooking setup involves open flames.

6. General Household Cleaning

Use: Keeping the living area clean during a power outage is essential for health, especially if sanitation is limited.

How-To: Wipe down surfaces with bathtub water and a mop or cleaning cloth to ensure safe and hygienic spaces.

7. Pet Needs

Use: If other water sources aren't available, use this water for pet drinking, washing, or cleaning up after pets.

How-To: Depending on your pet's health needs, ensure that any pet drinking water is clean by filtering or boiling.

Conclusion

Water preservation during a power outage is essential for maintaining access to clean, safe water. You can ensure a reliable water source during prolonged power outages by setting up rainwater catchment systems, storing emergency water supplies, and knowing purification methods. Preparing now with these backup solutions helps safeguard your household against potential water shortages.

BUDDY SYSTEMS FOR POWER OUTAGES/EMERGENCIES

A Buddy System with neighbors and nearby residents can enhance resilience during emergencies and extended power outages. This collaborative approach builds community support and allows individuals to share resources, skills, and knowledge. Here's how a buddy system can work effectively during a crisis:

Establishing the Buddy System

Identifying Potential Group Members:

Individuals form pairs or small groups basing their choices on proximity, mutual trust, and/or complementary skills. Each potential Group Member lists their strengths, resources, and expertise. This way, everyone understands what each partner can offer during a crisis.

Develop a Communication Plan:

Group Members create a communication plan that explains how they will check in on one another during a crisis. This plan might include designated meeting points, signals for help, or scheduled times to gather and assess the situation.

Resource Sharing

Food and Water:

One Group Member may have a well-stocked supply of canned goods and bottled water. Another might have a rainwater collection system and knowledge of food preservation. By sharing resources, everyone can have enough to eat and drink.

Example: Group Member A shares canned vegetables and rice, while Group Member B provides bottled water and a rainwater filtering method. Together, they prepare meals using their combined supplies.

Tools and Equipment:

One Group Member may own a generator, and another might have tools for manual tasks, like hand saws or axes. During an outage, they coordinate their efforts to stay comfortable and safe.

Example: Group Member A uses a generator to power essential devices, like a refrigerator. Meanwhile, Group Member B uses tools to handle minor repairs, ensuring the shelter that they share remains secure.

Knowledge and Skills Exchange

Emergency Preparedness:

One Group Member might know first aid and emergency protocols. Another might specialize in outdoor survival skills, such as foraging for edible plants. They teach each other valuable skills that improve their individual, as well as combined, ability to cope.

Example: Group Member A hosts a first aid workshop for Group Member B's family, teaching basic injury treatment techniques. In return, Group Member B teaches Group Member A to identify and gather edible wild plants if food supplies dwindle.

Cooking and Nutrition:

One Group Member may know how to cook with limited resources, such as using a camp stove or outdoor grill. Another may be skilled in nutrition and meal planning, additionally, sharing with others dehydrated or canned food. Together, they create nutritious meals from their supplies.

Example: Group Member A shows how other Members how to cook pasta and canned sauces on a portable stove. Group Member B suggests adding dehydrated vegetables to improve nutritional value.

Emotional Support

Moral Support:

The Buddy System reduces fear and isolation. Regular check-ins and shared experiences provide emotional reassurance and create a sense of community during uncertain times.

Example: Group Member A might feel overwhelmed, while Group Member B offers encouragement and companionship. These shared conversations and activities help ease anxiety.

Entertainment and Distraction:

Group Members can enjoy activities together, like playing board games, storytelling, or organizing group meals. These activities lift spirits and strengthen bonds.

Example: They may host a potluck-style meal. Everyone brings a dish to share, fostering camaraderie and cooperation.

Safety Measures

Monitoring Each Other:

Group Members can establish a Safety Buddy System, ensuring someone always knows the other's location. This is especially useful when someone leaves home for supplies or assistance.

Example: Group Member A informs Group Member B before checking on an elderly neighbor. This way, someone always knows their whereabouts.

Sharing Updates and Information:

Buddies keep each other informed about changes in the situation, such as power restoration or emergency services updates. They also share useful tips or strategies they learn.

Example: If Group Member A hears about a food supply distribution nearby, they relay that information to all other Group Member, ensuring that everyone stays informed and has access to essential resources.

Conclusion

The Buddy System strengthens community ties and improves resilience during power outages. Neighborhoods navigate challenges more effectively by sharing resources, knowledge, and emotional support. This collaborative approach helps individuals handle immediate challenges and fosters unity that extends beyond the crisis. Through mutual assistance and cooperation, Buddies can better weather the storm. Preparedness, after all, isn't only about individual supplies; it's about community strength.

COMMUNICATING DURING POWER OUTAGES/EMERGENCIES

When the power goes out, staying connected becomes challenging, but it's crucial for safety and coordination. Grid power outage communication options range from basic text messaging to more advanced tools like two-way radios and satellite phones. Depending on the extent of the outage and the infrastructure affected, some communication methods may still function while others might fail. Understanding these options can help you prepare for any scenario, ensuring you can maintain contact with others during an emergency. Below, we explore the best alternatives to using your cell phone when the grid is down.

Reliable Communication Methods for Any Outage Affecting Normal Telecommunications

Here are some alternatives to using mobile phone calls for communicating during such an event:

1. Text Messaging (SMS)

First, if cell towers are operational, text messaging can sometimes work even if voice calls and data are unavailable. Texts use less bandwidth and sometimes get through when voice calls cannot. However, if the cell towers are also down, SMS will not function.

How Text Messaging Works During a Power Outage:

Text messaging relies on cellular towers to transmit messages. While these towers may lose power during an emergency event, many have backup generators or batteries to keep them operational for a limited time. As long as the cellular tower near you remains functional, your phone can send and receive texts. This is one of the key advantages of text messaging during a power outage. It uses much less data than voice calls or internet-based communications like social media or email. Texts often get through in situations where data and calls fail.

Example: If a power outage causes widespread disruption, voice calls might not go through due to network congestion. Text messages, which only require minimal data, are more likely to get transmitted, especially in cases of limited bandwidth. When phone lines are overwhelmed in emergencies, sending a short text can efficiently communicate with others. Many emergency response teams advise using text messaging instead of calling during large-scale emergencies.

However, remember that text messaging functionality is still dependent on the condition of local infrastructure. If the cell towers themselves go down or if the outage lasts long enough that their backup power fails, SMS services may not work. While text messaging is reliable in many scenarios, it's not foolproof and may require additional backup communication options, especially in long-term outages. At any rate, it is certainly worth trying early in the crisis.

Text messaging is also highly valuable during power outages because it conserves battery life. Phones use less battery power when sending texts than when making calls or using data. Since charging options may be limited during a power outage, preserving battery life becomes essential. You can extend your phone's operational time by making text messaging your primary communication method.

Furthermore, text messaging supports asynchronous communication, ensuring messages are delivered once the recipient regains service, even if their phone is off or out of range. This reliable

method allows communication to continue, even when an immediate connection isn't possible. In an emergency, it offers peace of mind, knowing your message will eventually reach its destination when the network becomes available.

Additionally, authorities send emergency notifications and critical updates via SMS alerts during power outages. These messages deliver vital information, including evacuation orders, weather updates, or power statuses. Keeping your phone ready to receive text messages informs you about crucial safety updates.

In localized outages where cell towers remain operational, text messaging enables communication with people outside the affected area. With power and network availability, you can reach friends, family, or emergency services in regions, allowing you to coordinate help or stay updated on recovery efforts. For this reason, it is advisable to identify and agree upon mutual contacts outside of your geographical area for all in your circle of family or friends to connect with for news, status updates, and other critical communications.

In summary, text messaging is one of the most efficient ways to communicate when network resources are limited.

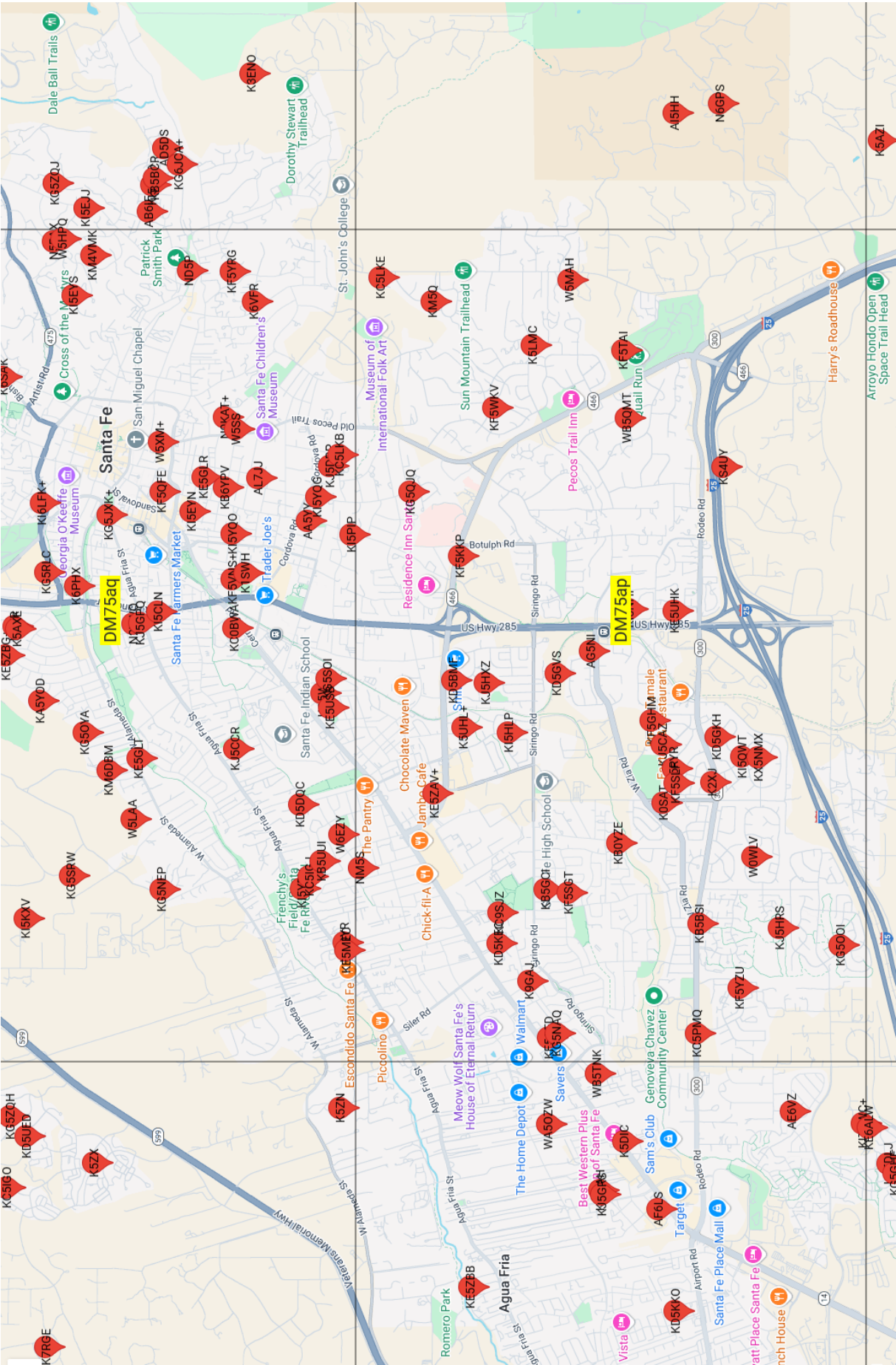
2. Two-Way Radios

Family Radio Service (FRS/Walkie-Talkies) and General Mobile Radio Service (GMRS) radios offer a reliable alternative and are good for short-distance communication (up to several miles, depending on terrain). GMRS requires a license, but FRS does not. These radios are widely available and reliable when other communication methods fail.

Additionally, HAM (Amateur) Radios can communicate long distances without relying on infrastructure like cell towers. They require a license to operate but are a top choice for emergency communications. Depending on equipment and atmospheric conditions, HAM radios can communicate locally and internationally. It may be very beneficial to make an effort to identify a HAM Radio Operator in your neighborhood before a crisis strikes.

3. Satellite Phones/STARLINK Internet

Satellite phones can send and receive calls and texts without relying on local cell towers. They communicate via satellites, making them useful in widespread outages. However, they are expensive and may require special service plans. STARLINK, developed by Space X, provides streaming and video calls even to remote locations.



4. Emergency Beacons (PLBs)

Personal Locator Beacons (PLBs) and other emergency satellite messengers (like Garmin inReach) can use satellites to send distress signals and even short texts.

5. Mesh Network Apps

Apps like Bridgefy or GoTenna use Bluetooth or Wi-Fi to create a mesh network for communication between devices without cellular service. These can work for short distances (a few hundred feet) between users in the same locale who are not within sight of each other, as long as their phones are equipped with the same app.

6. Landline Phones

If you have a traditional landline telephone (not a VoIP [Voice over Internet Protocol] phone), it might still work during a power outage because landlines receive their power from the phone company, which typically has backup generators. Most modern systems, especially those using fiber optic or cable, may only function with power if they have backup generators.

7. CB Radios

Lastly, Citizens Band (CB) radios, commonly used by truckers and hobbyists, can also be effective for short-range communication (up to 10 miles) in an emergency.

Conclusion

Do not underestimate the importance of communications during a power outage or other emergency. It is wise to understand all options and evaluate which are most applicable and affordable for your use. If possible, prepare to have two or more of the above communication methods available should the need arise.

COOKING DURING A POWER OUTAGE

This chapter covers essential methods, tools, and safety.

When a power outage occurs, cooking can become a challenge. However, using the right methods and tools ensures that you can still prepare meals safely. This guide explores several outdoor cooking options which can be used during a power outage, including charcoal grills, propane camp stoves, and other alternatives. It also covers the best pots and pans to use with these methods, as well as cleaning tips, and safety precautions. It also explains why outdoor cooking is safer and what you need to handle fire risks during a power outage.

Outdoor Cooking Methods

1. Charcoal Grill

Charcoal grills are a reliable option during a power outage. They provide even heat for grilling and smoking food. They are popular as many use them for cookouts. Ensure that you have a steady supply of charcoal and a fire starter.

2. Propane Camp Stove

A propane camp stove is another excellent choice. Most are portable, quick to set up, and great for boiling water or cooking in pots. Ensure that you have extra propane canisters stored safely.

3. Propane Grill

Propane grills, similar to camp stoves, are versatile and easy to use. They offer a larger cooking surface, which is useful when cooking for multiple people. Always keep propane tanks filled and safely secured.

Other Cooking Methods

You may also choose:

4. Solar Ovens

As the name implies, these rely on sunlight, which is perfect for slow cooking without fuel.

5. Wood-Fired Stove

If you have ample access to wood, these can provide heat as well as a cooking surface.

Best Pots and Pans for Cooking Outdoors

Choosing the right cookware is essential. Here's what works best for each method:

1. Cast-iron skillets and Dutch ovens

Cast-iron skillets and Dutch ovens offer durability and even heat distribution, making them perfect for all outdoor cooking surfaces. Their heavy weight effectively retains heat, which is ideal for slow-cooked meals. Additionally, you can use a cast-iron Dutch oven for baking or stewing over hot coals or an open fire.

Cast iron cookware is a reliable choice during grid outages, providing consistent performance for various cooking needs. Its durability, heat retention, and versatility make it ideal for long-term use, even under challenging, power-free conditions. Proper care is key to preserving its function and preventing rust. Here are essential steps to keep your cast iron in prime condition, ready for any meal, no matter the situation

Clean Immediately After Use

To protect the cast iron's non-stick surface and seasoning layer, clean it right after cooking. Use warm (but not too hot) water and a gentle scrub. Avoid soap if possible, as it can remove the seasoning; however, a small amount of mild soap may be used if necessary.

Thoroughly Rinse and Dry

After scrubbing, rinse thoroughly with warm water to remove any food residue. Completely dry the cast iron with a towel or, for additional drying, place it over low heat on the stove to remove any lingering moisture. This step is essential since even slight moisture can lead to rust.

Tip: Drying and adding a thin layer of oil immediately after cleaning helps prevent rust and maintains the non-stick layer.

Re-Season Regularly

Regular re-seasoning keeps cast iron functioning at its best, particularly when it's in heavy use, like during outages. After cleaning, apply a thin layer of high-smoke-point oil, such as vegetable or flaxseed oil, across the entire pan, including the handle and bottom. Heat the oiled pan in a low-temperature oven to bond the oil with the cast iron for enhanced seasoning.

Avoid Soaking and Harsh Detergents

Avoid soaking cast iron in water, which can break down the seasoning and cause rust. It's also best not to place cast iron in a dishwasher. Instead, hand wash it with hot water, using only minimal soap when necessary.

Storage Tip: Ensure that the pan is fully dry before storing. Place a paper towel between each piece to protect the seasoning layer if stacking.

Handling Rust and Re-Seasoning

Rust may appear on cast iron, especially in humid storage areas or after extensive use. Scrub rusted spots with steel wool or a rust eraser until fully cleared. Once rust-free, re-season the pan to restore its protective coating.

Remember: Frequent use helps maintain the seasoning, as cooking with oils and fats naturally reinforces the non-stick coating.

2. Stainless Steel Pots and Pans

Additionally, stainless steel is a good choice for propane stoves or grills because it is lightweight and rust-resistant. It is also easy to clean and distributes heat evenly.

3. Aluminum Cookware

Aluminum pots, which are lightweight and affordable, work well on camp stoves. They heat up quickly but may dent or warp under high heat.

4. Enamel-Coated Cast Iron

Enamel-coated pots resist rust and are easy to clean, making them great for slow-cooking or stewing outdoors.

Special Considerations for Enameled Cast Iron

While enameled cast iron does not require seasoning, it does benefit from gentle handling to protect its enamel coating. To maintain the enamel's quality, avoid abrasive cleaners and high heat.

Cleaning Cookware After Use During Outdoor Cooking

Keeping your pots and pans clean is critical for hygiene, especially during a power outage. Follow these tips:

1. Boiling Water

After cooking, use hot water to loosen food residue. Scrub with a sponge or brush and mild soap if available.

2. Vinegar and Baking Soda

Make a paste with vinegar and baking soda for removing stubborn grease or burnt-on food. Scrub thoroughly, with a hardy sponge or kitchen sink scrubber, then rinse. For cast iron, be sure to use a non-metal scrubber or a stiff brush. Coarse salt can also act as a gentle abrasive when needed.

3. Sand or Dirt Scrub

In survival situations, you can use sand or dirt to scrub off food debris when water is scarce. Be sure to rinse thoroughly afterward.

Always use Biodegradable Soap to avoid environmental harm when cleaning outdoors.

Tip:

Dr. Bronner's Pure Castile Soap is the top choice for biodegradable soaps. This eco-friendly soap combines quality and versatility in a single product. Its concentrated formula is incredibly long-lasting; a small travel-sized bottle can often last weeks. Available in a range of sizes, from 2 ounces to a full gallon, Dr. Bronner's soap is crafted with organic oils like coconut, olive, and jojoba and avoids synthetic preservatives. Certified fair trade ingredients make it a thoughtful choice for the environment and individuals with sensitive skin. Packaged in post-consumer recycled bottles, it aligns well with sustainable living values.

With its widespread availability, Dr. Bronner's Pure Castile Soap is easy to find online and in major trail towns. It is a convenient, all-in-one solution for eco-conscious travelers and outdoor enthusiasts and the right choice to protect our environment during power outages. Dr. Bronner's versatility is unmatched, boasting 18 uses—from personal care to household cleaning. While it is effective for the face, body, and hair, it also works as dish soap, deodorant, and even cleaner for pets. A pinch can even double as toothpaste or mouthwash (though best reserved for emergencies).

Safety Precautions While Cooking Outdoors

Cooking outdoors requires extra caution, especially in emergencies. Here's what you should keep in mind:

1. Stay Away from Flammable Materials

Set up your grill or stove on a flat surface, away from dry grass, leaves, wooden structures, and flammable materials which can be ignited when winds arise.

2. Maintain Adequate Ventilation

Always cook in a well-ventilated area to avoid carbon monoxide poisoning from propane or charcoal use. Never cook inside a tent or enclosed space.

3. Wear Heat-Resistant Gloves

Handle hot surfaces with care to avoid burns. Heat-resistant gloves are essential when managing grills or stoves.

4. Supervise Cooking at All Times

Fires can spread quickly. Keep a close eye on your food, especially if cooking over an open flame.

Why You Shouldn't Cook Indoors

Cooking with propane or charcoal indoors can be extremely dangerous. These methods emit carbon monoxide, a colorless, odorless gas that can be deadly in confined spaces. Additionally, using open flames indoors poses a significant fire risk. It is crucial to stick to outdoor areas for these cooking methods.

Fire Safety

During a power outage, it's vital to have fire safety tools on hand. Consider keeping the following nearby:

1. Fire Extinguisher:

Ensure that it is rated for grease and gas fires and everyone knows how to use it.

2. Fire Blanket

A fire blanket can quickly smother small flames before they spread.

3. Buckets of Water or Sand

In case of a small fire, having water or sand ready and nearby can help extinguish flames before they get out of control.

4. Smoke Alarms

If you have battery-powered smoke detectors, ensure they're operational during an outage.

Conclusion: Stay Prepared with Safe Cooking Methods

Cooking during a power outage doesn't have to be stressful if you're prepared. You can continue providing nutritious meals using safe outdoor cooking methods like propane stoves, charcoal grills, or solar ovens. Remember to choose durable cookware, keep safety in mind, and always prepare for fire risks. Staying informed about these methods ensures your cooking experience remains safe, efficient, and enjoyable.

LONG-TERM FOOD STORAGE OPTIONS

This chapter provides foundation information for maintaining a well-balanced diet during a power outage or emergency. Storing foods with the right methods ensures that your meals will be nutritious and diverse, no matter the circumstances. Choosing options that maximize the shelf life of your food while preserving its quality, will allow you to enjoy meals in many emergency scenarios. Below we explore the most reliable long-term food storage methods to keep your pantry stocked and your meals flavorful for months or even years.

Dehydrated and Canned Foods for Long-Term Storage

When preparing for a grid outage or any emergency, having the right food storage options is essential for sustaining nutrition and variety in your meals. The key to success lies in choosing storage methods that maximize the shelf life of your food while maintaining its quality. Below are the best options for long-term food storage that will ensure you and your family are well-prepared for any scenario.

1. Dehydrated Foods

Dehydrating food removes the moisture that leads to spoilage, making it an excellent long-term storage option. You can dehydrate vegetables, fruits, meats, and herbs. With minimal equipment, you can preserve nutrients and flavors. A dehydrator, air-drying, or oven-drying are all effective ways to achieve this. When properly stored in airtight containers, dehydrated foods become lightweight and space-efficient, perfect for emergencies.

Transitioning from fresh to dried versions of your favorite ingredients is seamless. Whether dehydrating your produce or purchasing pre-packaged options, they are easy to rehydrate and use in soups, stews, or stir-fries.

Yes, you can dehydrate meat!

2. Freeze-Dried Foods - the Ultimate Long-Term Storage Solution

Freeze-dried foods offer the longest shelf life, often lasting 20 to 30 years if stored properly. This method freezes the food and reduces the surrounding pressure to remove moisture through sublimation. As a result, freeze-dried foods retain most of their original nutrients, flavor, and texture.

Incorporating freeze-dried ingredients into your emergency meal plan is easy. Add water to rehydrate them, and they're ready to go. This option is great for preserving delicate items like berries and dairy as well as full meals, like stews or pasta.

3. Vacuum-Sealed Dry Goods

Vacuum sealing is another highly effective method for storing dry goods, such as grains, rice, flour, pasta, and legumes. Removing oxygen from the packaging protects vacuum-sealed foods from oxidation and insect infestations. This storage method is ideal for bulk purchases because it keeps items fresh for a long time while taking up less space.

Combining vacuum-sealed dry goods with oxygen absorbers further extends their shelf life. Store these packs in cool, dark places.

4. Mylar Bags with Oxygen Absorbers

Mylar bags, often used with oxygen absorbers, offer a durable and airtight option for long-term storage. The bags act as a barrier to light, moisture, and air, preserving the food inside for decades. Mylar bags store items like rice, beans, dried vegetables, and powdered products like milk or protein powders.

Because Mylar bags are lightweight and easy to seal, they are a popular choice for those building emergency food supplies. Placing these bags in food-grade buckets adds an extra layer of protection against pests and physical damage.

Canned Foods

Canning foods is one of the most reliable storage methods for long-term use. By sealing food in cans and subjecting it to heat, bacteria, and enzymes are destroyed, allowing it to remain shelf-stable for years. Commercially canned products and home-canned foods provide various meal possibilities during a power outage. One advantage of canned goods is that they come ready to eat, requiring little to no preparation. Whether you stock up on beans, soups, or vegetables, canned foods are quick, convenient, and nutritious when access to fresh ingredients is limited.

Canning is a trusted and highly effective method for preserving vegetables and meat for long-term storage. This process involves sealing food in jars and heating them to destroy bacteria, yeast, and molds that cause spoilage. Doing this allows you to store various vegetables and meats for years, ensuring you always have access to nutritious meals during a power outage or emergency.

5. Canning Vegetables

This method is ideal for preserving seasonal produce like tomatoes, green beans, carrots, and peppers. First, you select fresh vegetables and blanch them briefly to halt enzyme activity. Then, pack the jars with the vegetables, add boiling water or a pickling brine, and seal them. Depending on the vegetable's acidity, a pressure canner or boiling water bath process is used.

By following this method, you not only extend the shelf life of your vegetables but also retain much of their original taste, color, and nutritional value. Canned vegetables are perfect for soups, stews, or side dishes, especially when fresh ingredients are unavailable.

6. Canning Meat

This process is equally effective for long-term storage. Whether beef, pork, poultry, or fish, pressure canning ensures the high temperatures necessary to kill harmful bacteria. To can meat, you start by cutting it into manageable portions. Some prefer to brown the meat first, but it can also be raw-packed. After adding broth, water, or juices, seal the jars and use a pressure canner to safely preserve the meat for years.

The advantage of canned meat is its versatility. It's fully cooked and ready to use in various dishes like stews, casseroles, or quick stir-fries. Plus, having canned meat on hand during a power outage means you will have protein-rich meals, even when your freezer is out of commission.

7. Root Cellar Storage - A Time-Tested Method

If you have the space, a root cellar is a time-tested method for storing certain fresh produce, such as root vegetables, apples, and squash. By taking advantage of the naturally cool, humid environment underground, you can extend the life of these foods without any additional preservation methods.

Root cellar storage is ideal for those who grow their food and want to store it more traditionally. Regular monitoring is key, but when maintained properly, your root cellar can keep crops viable for several months.

8. Salt Curing and Smoking

For those interested in traditional methods, both salt curing and smoking effectively preserve meats for long periods. Salt curing involves packing meat in salt to draw out moisture, while smoking uses low heat to dehydrate and infuse flavors. Both methods work to prevent bacterial growth and spoilage.

Conclusion: Combining Storage Methods for Versatile Meal Preparation

These preservation techniques extend the shelf life of meat and add distinct flavors to foods, making them a delicious addition to your emergency storage plan. Combining these storage options allows you to create a versatile and robust food supply which lasts through even the most extended outages. Transitioning between various preservation methods allows you to enjoy diverse, nutritious meals while ensuring that nothing goes to waste.

EMERGENCY CONTACTS

Emergency contacts are vital during all emergencies, and having them in hard copy ensures you’re never dependent on electronic devices. You can quickly reach family, emergency services, and utility companies when needed by storing these numbers in your **EMERGENCY NOTEBOOK**. Additionally, this written list reduces stress and saves time during emergencies. It ensures communication with essential contacts, even during extended outages. Furthermore, keeping everything in one place will help you stay organized and ready for any unexpected situation.

Add these contacts to your mobile phone in the event that texting remains possible during the crisis.

Local Emergency Services

Next, gather contact information for local emergency services. These numbers will be your lifeline during an emergency, especially in cases involving fire, medical emergencies, or security issues Include the 911 emergency number and direct lines for local fire, police, and utility services. These contacts are crucial for reporting outages, getting updates, and addressing emergencies that may arise.

Contacts Information

	Fire Department (911): For immediate response to fires or serious injuries
	Police Department (911): For law enforcement assistance with security concerns
	Sheriff & Public Safety: For non-emergency responses in rural areas
	Power Company: Customer service number for outage reporting and updates
	Water & Sewage Services: Report leaks, broken pipes, or service disruptions
	Telephone Service Provider: Report downed phone lines or service interruptions
	Animal Shelter: Helpful for emergencies involving lost pets or animal care
	Medical Emergency Numbers: Include doctor’s office, hospitals, and urgent care centers
	Additional Local Contacts: Add pharmacies, veterinarians, schools, or community centers

Gather contact information and other important details for your family, friends, and neighbors. This information may be your lifeline during an emergency, particularly in cases involving fire, medical emergencies, or security issues. First, ensure that all family members know essential contact numbers. Using the form in this chapter, create a detailed list with each family member’s full name, phone number, and address. Also, don’t forget to add neighbors or close friends who can assist during a crisis. These individuals can help with emergency tasks or check on your home, family, pets, etc., if you are unavailable.

Additionally, store this information in a hard-covered notebook and keep it in a visible, accessible location near your home phone or office.

Personal Emergency ID Cards for Your Household

Creating **Personal Emergency ID Cards** for each household member is crucial to emergency preparedness. These cards should include essential information such as medical conditions, allergies, emergency contacts, and identification details. This information is invaluable when communication becomes difficult or impossible. Readily available data helps first responders provide the correct care in an emergency. It also ensures your loved ones receive the attention they need. Additionally, these ID cards can help reunite separated family members during a crisis.

Personal Information: Print and complete 1 form for each person in your household

Give one copy of the completed form to the individual named on the form and include one copy in your Disaster Preparedness Notebook

Fields marked with “*” include an original or copy of the document in your Disaster Preparedness Notebook

	Full Name
	Date of Birth *
	Address
	Allergies
	Birthmarks, tattoos, or piercings
	Blood Type
	Ethnicity
	Eye Color
	Gender
	Hair Color
	Height
	Medical Information
	Organ Donor Status
	Phone/Cell Number
	Social Security Number *
	Work Phone
	Workplace (Include name and address)
	Date This Information Was Last Updated

Documentation for Vital Records, etc.

Documents Checklist

	Banking information – all accounts
	Medical and insurance ID #s, etc.
	Medical records (including prescriptions)
	Pet Medical
	Multiple forms of ID
	Financial documents, Check Book, Account #s
	Passports
	Licenses, certifications, permits
	Power of Attorney
	Wills, Trusts
	Schools, Diplomas

Final Thoughts: Keep Your Information Up-to-Date

Regularly updating this contact list is key to ensuring that you are prepared for any emergency. Having this information in one place will help you act quickly in emergencies and stay connected with critical services. Preparedness minimizes disruption and helps you and those you care about remain safe during a crisis.

DISASTER PREPAREDNESS CONTRIBUTIONS

Name: _____

For each of the following categories, record what contributions you can make.

CATEGORY	STRENGTH/SKILL	KNOWLEDGE/ EXPERTISE	RESOURCES
1: Shelter			
2: Heat			
3: Power			
4: Water			
5: Food			
6: Communications			
7: Transportation			
8: Health/Medical			
9: Finances			
10: Safety/Security			