

# Watch Out...



# WINTER STORMS AHEAD!

**OWLIE SKYWARN'S WEATHER BOOK**



FEMA



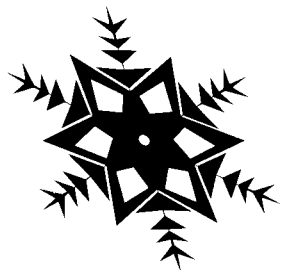
FEMA



# Winter Storms







Flash floods and tornadoes can occur during any month of the year. Not so with snow storms; they occur in winter or sometimes in early spring or late fall. Usually the snow piles up slowly, so you have time to get to a safe place, but not always. In a winter storm a few flakes may fall and the next moment you see blinding snow. It's so heavy you can't see to drive or walk. It piles up deeper and deeper. All at once you may be stalled in a huge drift. You may be trapped.

## Winter Storm **Watch**

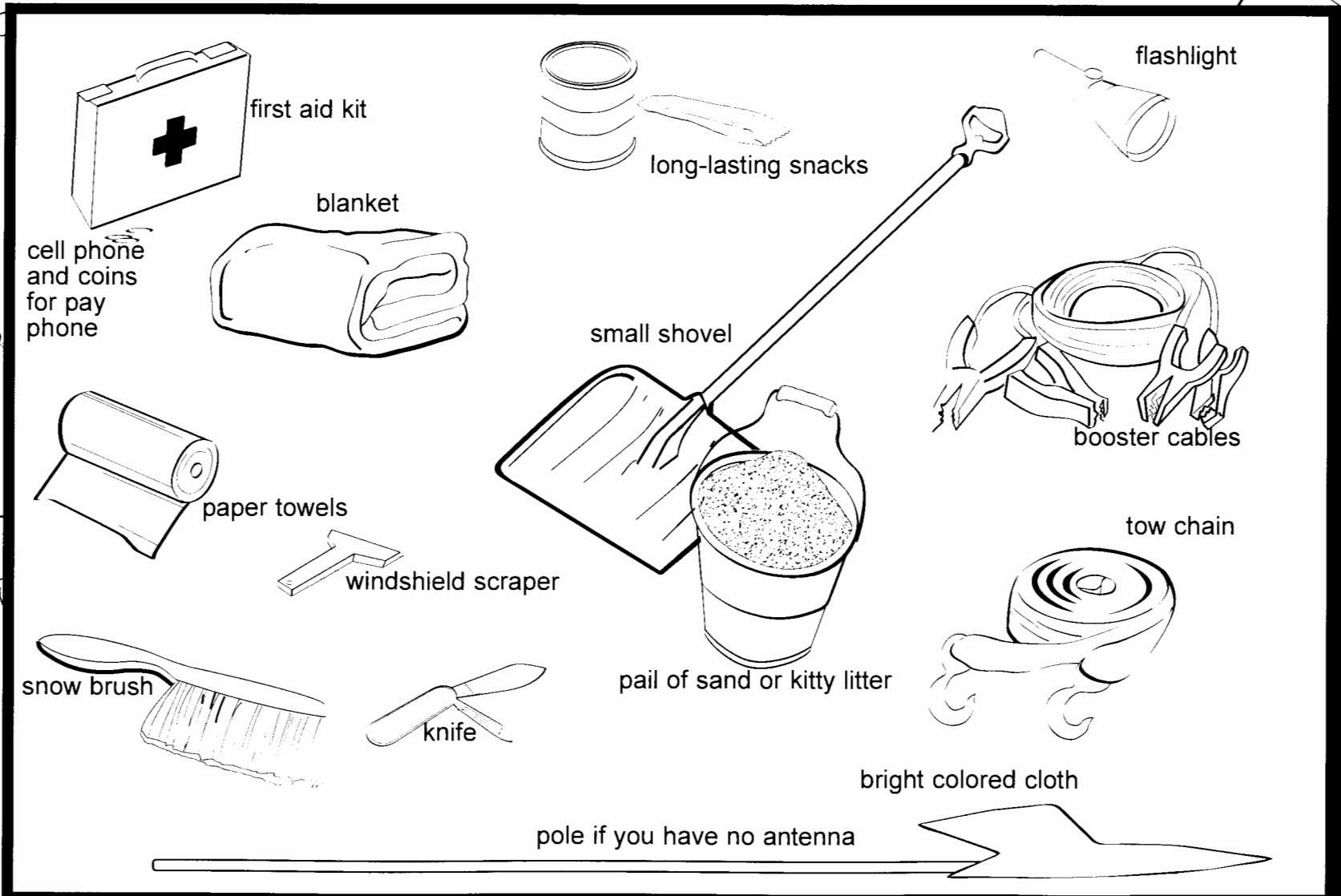
There is a chance of heavy snow, ice or sleet, ice storm, dangerously low wind chill or a blizzard within the next day or two.

## Winter Storm **Warning**

Severe winter weather IS coming. Be alert. Stay indoors!

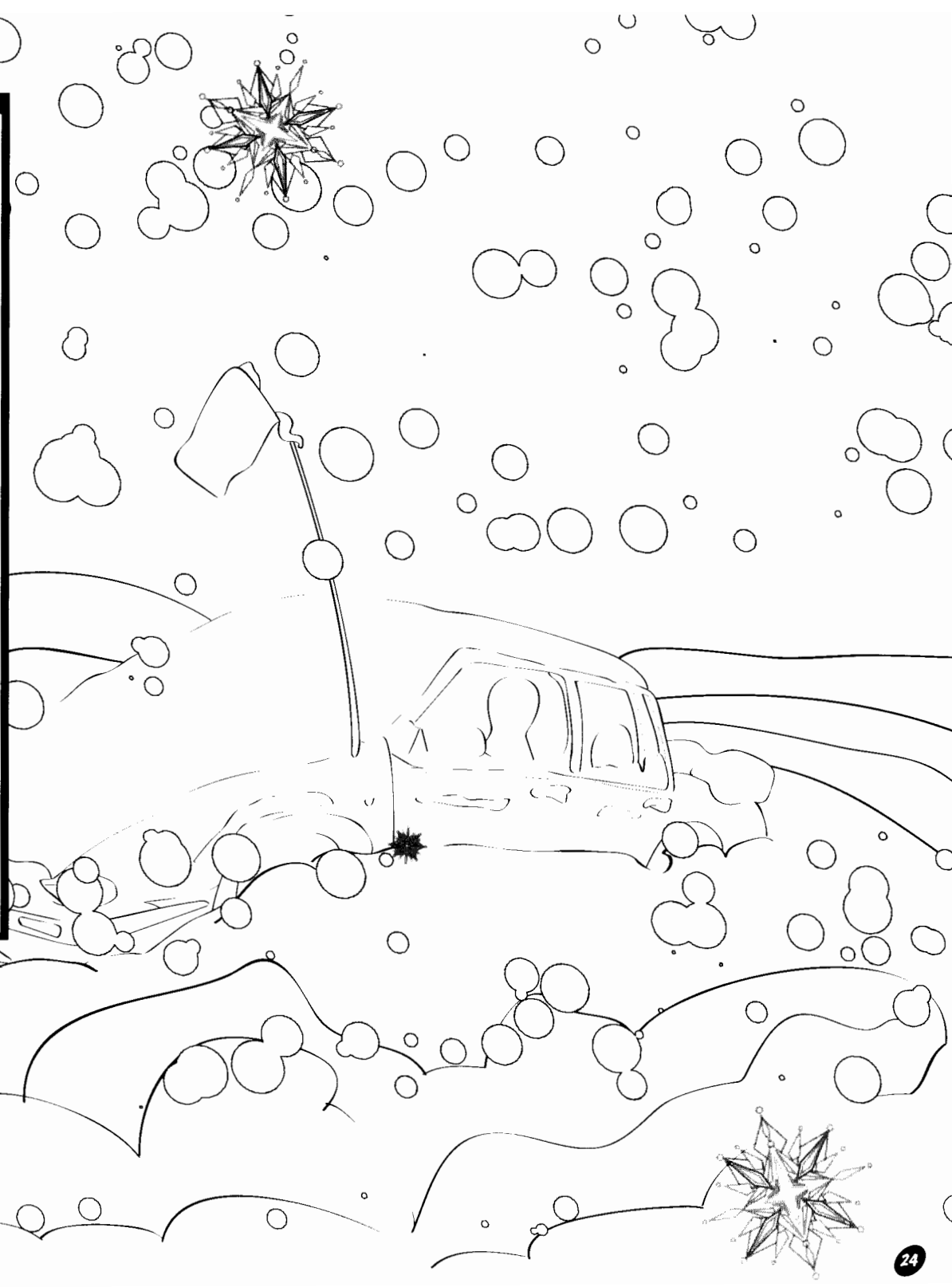
# Car Safety Kit!

Tell your parents to put these things in the trunk if you live somewhere that gets deep snow even occasionally:



## If Your Car Gets Stuck

- Tie a bright cloth to the antenna and raise it high so rescuers can find you.
- If your car has no antenna, use a pole or fishing rod.
- As you sit, exercise. Clap your hands, stomp your feet, swing your arms about. Keep your blood moving to keep warm. Don't leave the car.
- Run the car engine for 10 minutes every hour, keep windows opened a little bit to prevent carbon monoxide poisoning. Conserve gasoline and food. You may be stranded for a long time.
- Leave the ceiling light on at night so you can be seen.



# What To Do If You're at Home.

Electricity may go off. Have a way to cook and keep warm.  
The furnace may not work.



Have a supply of food and a flashlight.

A line drawing showing a cylindrical can, a knife with a handle, and a flashlight with a lens and a handle.A line drawing of a portable, battery-operated radio with a carrying handle on top and a speaker on the front.

Find your battery operated radio and spare batteries.

A line drawing of two 2-liter plastic soda bottles, one slightly behind the other.

Save and clean 6 2-liter soda bottles or a large water container (as shown) for each family member.

## ***If you must go out in a blizzard...***

- Wear mittens. They are warmer than gloves.
- Wear several layers of wool clothing and a windbreaker. Layers are warmer than a single heavy garment.
- Wear a hood that covers your mouth.
- Wear a hat and ear muffs.
- If you must go out, fasten a lifeline to yourself and to the house so you don't get lost in the blizzard.

# Owlie's Snow How



In the Antarctic, there is a 30-30-30 rule. When the temperature is 30 below, and the wind is 30 miles per hour, a person can live only 30 minutes outside.

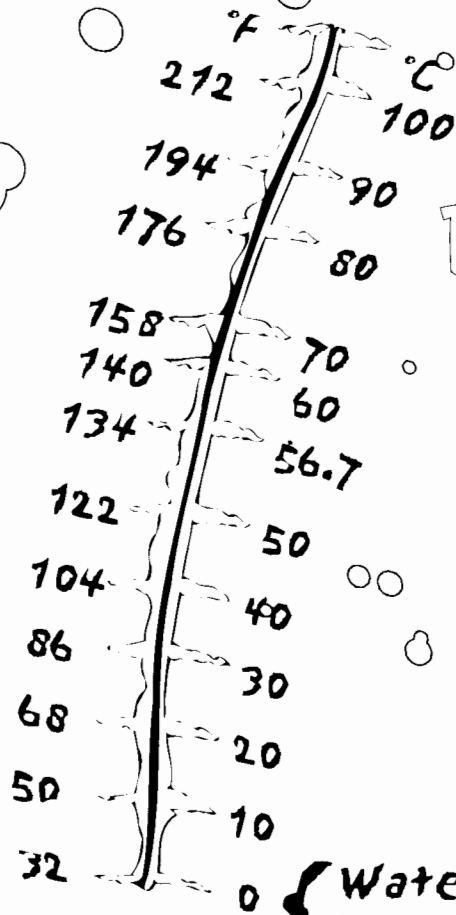
During the winter, you often hear the term "wind chill." Wind combined with air temperature makes your body feel even colder than the actual temperature. You get that feeling when you get out of the pool or ocean in the summer.

In winter, wind chill can be dangerous. For example when the outside temperature is zero degrees and the wind speed is 20 miles per hour, the wind chill makes it feel like 22 degrees below zero. Exposed skin will freeze in less than 30 minutes.

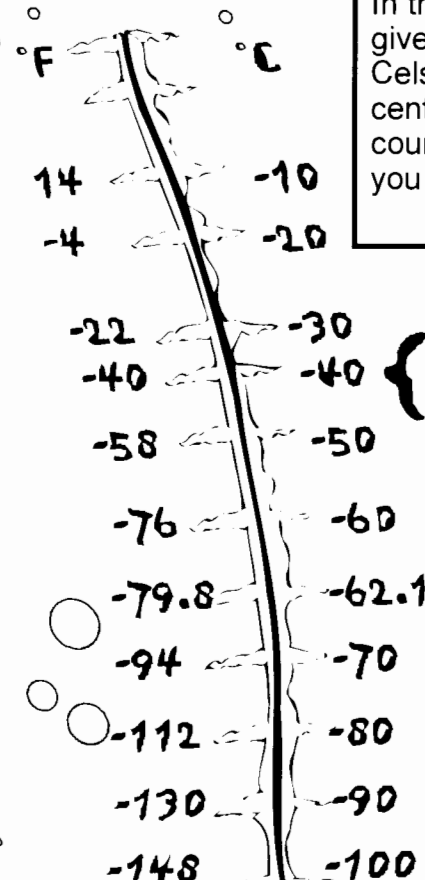


# Did You Know?

- The lowest temperature in the United States was  $-79.8^{\circ}\text{F}$  ( $-62.1^{\circ}\text{C}$ ) at Prospect Creek Camp in the Endicott Mountains of northern Alaska on January 23, 1971.
- Aside from Alaska, the coldest temperature was  $-69.7^{\circ}\text{F}$  ( $-56.5^{\circ}\text{C}$ ) in Rogers Pass, Montana, on January 20, 1954.
- One storm from February 13-19, 1959, dumped 189 inches of snow at Mt. Shasta Ski Bowl, California.
- The greatest snowfall in 24 hours in the United States was at Silver Lake, Colorado, on April 14-15, 1921, 75.8 inches.
- The most snow in the U.S. in one month--390 inches (32.5 feet) fell at Tamarack, California, in January 1911.
- In the winter of 1971-72, 93.5 feet (1,122 inches) of snow fell at the Rainier Paradise Ranger Station in the state of Washington.



## Temperature Conversion



In the United States, temperatures are given in Fahrenheit degrees. The Celsius temperatures (also called centigrade) are used in most other countries. Here are both scales so you can convert one to another.

# Winter Storm

# Quiz

Fill in the blank with the correct words. Use these words:

winter  
watch  
kitty litter

antenna  
mittens  
wind chill

snowdrift  
warning

carbon monoxide  
layers

1. A winter storm \_\_\_\_\_ means there is a chance of heavy snow or blizzards.
2. A winter storm \_\_\_\_\_ means severe winter weather is coming.
3. If a winter storm is expected you should have sand or \_\_\_\_\_, \_\_\_\_\_ in your trunk in case your car gets stuck.
4. If a winter storm is expected, you should put a bright colored cloth on the \_\_\_\_\_ so someone can find you.
5. If you keep your car engine running to keep warm, you could die from \_\_\_\_\_ poisoning unless your windows are open to get fresh air.
6. If you go outside in severe weather, you will be warmer if you wear \_\_\_\_\_ of wool clothing.
7. \_\_\_\_\_ are warmer than gloves.
8. Snow storms and blizzards usually occur in \_\_\_\_\_.
9. The temperature your body feels when the actual temperature and wind are combined is called \_\_\_\_\_.
10. If you are driving during a blizzard, your car could be stalled in a huge \_\_\_\_\_.

Answers on page 41

Make a list of supplies you should keep in your car to prepare for winter storms or blizzards.

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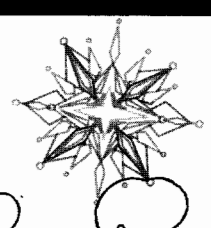
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Circle T (true) or F (false) for each sentence below.

- T F 1. During a winter storm you can be stuck in a snowdrift.
- T F 2. If your car is stuck in the snow, roll up all the windows and keep the engine running until you run out of gas.
- T F 3. If you are trapped in a car, move your hands and feet as much as possible to keep warm.
- T F 4. An umbrella should be a part of your winter storm safety kit.
- T F 5. Snow storms can occur anytime of the year.
- T F 6. If your car is stuck in the snow, leave your ceiling light on at night so you can be seen.
- T F 7. Booster cables and a snow brush should be part of your winter storm car safety kit.
- T F 8. Wind chill is the combined effect of temperature and wind felt by your body.
- T F 9. Wear gloves. They are warmer than mittens.
- T F 10. If your car is stuck in a snowdrift, stand on the roof wearing brightly colored mittens and wave your arms.



# Answers

## flash flood quiz (pg 32)

1. roads, 2. flash flood, 3. ground, 4. streams, 5. car  
6. bridges -- 1. T, 2. F, 3. T, 4. T, 5. F, 6. F, 7. F, 8. T,  
9. F, 10. T

## tornado quiz (pg 31)

1. tornado, 2. funnel and top, 3. black clouds, 4.  
watch, 5. warning, 6. train, 7. ditch, 8. basement, 9.  
hail, 10. bathroom, 11. windows, 12. mobile home, 13.  
sky, 14. radio -- 1. T, 2. F, 3. T, 4. T, 5. T, 6. F, 7. F, 8.  
T, 9. T, 10. F

## crossword puzzle (pgs 37-38)

### Answers: (Across)

4. Electricity, 6. Wind Chill, 7. Summer, 8. Floods  
14. Thunder, 15. Weather, 16. Hail, 17. Funnel

### Answers: (Down)

1. Forecasts, 2. Radio, 3. Eye, 5. Tornado, 7.  
Snowstorms, 9. Lightning, 10. Surge, 11. Shortest,  
12. Warning, 13. Hurricane

## hazards (pg 35)

1. Tornado, 2. hurricane, 3. hurricane, lightning and  
tornado, 4. winter storm and lightning, 5. flash  
flood, 6. lightning, 7. hurricane, lightning, winter  
storm, and tornado, 8. hurricane, tornado, and win-  
ter storm, 9. hurricane, tornado, winter storm and  
flash flood, 10. tornado

## true & false (pg 36)

1. F-lightning, 2. T, 3. F-Flooding,  
4. F, 5. F-anywhere 6. F, 7. T, 8. F, 9. T, 10. F

## winter storm quiz (pg 30)

1. watch, 2. warning, 3. kitty litter, 4. antenna, 5.  
carbon monoxide, 6. layers, 7. mittens, 8. winter,  
9. wind chill, 10. snowdrift -- 1. T, 2. F, 3. T, 4. F, 5.  
F, 6. T, 7. T, 8. T, 9. F, 10. F

## lightning quiz (pg 29)

1. die, 2. telephone, 3. thunder, 4. explode, 5.  
tallest, 6. shortest, 7. electricity, 8. tree, 9. fire,  
10. water -- 1. F, 2. T, 3. F, 4. T, 5. F, 6. F, 7. T, 8.  
F, 9. F, 10. T

## hurricane quiz (pg 33)

1. air, 2. moving, 3. oceans, 4. hurricanes,  
5. high tides and flooding, 6. watch,  
7. warning, 8. radio, 9. inland, 10. eye --  
1. F, 2. T, 3. F, 4. F, 5. T, 6. F, 7. T, 8. F, 9. F, 10. T

## fill in the blanks (pg 34)

1. Tornado, 2. tornado, 3. lightning, 4. winter  
storm, 5. flash flood, 6. hurricane, 7. hurricane,  
8. tornado, 9. hurricane, 10. tornado.